

Overall Digital Readiness

6.2

of 10

Metiri School District

Consolidated School Report: 10/11/2017 - 05/26/2018

Metiri Middle School

Overall Digital Implementation

5.4

of 10

Executive Summary

Technology now enables personalized digital learning for every student in the nation. The Future Ready Pledge, according to the U.S. Department of Education, is designed to set out a roadmap to achieve that success and to commit districts to move as quickly as possible towards a shared vision of preparing students for success in college, careers and citizenship. With student learning at the center, a district must align each of the eight (8) key categories, called gears, in order to implement and sustain successful digital learning. Digital learning readiness can only be accomplished through a systemic approach that addresses all gears.



The 8 Gears are as follows:

- 1. Curriculum, Instruction, and Assessment
- 2. Use of Time
- 3. Technology, Networks, and Hardware
- 4. Data and Privacy
- 5. Community Partnerships
- 6. Professional Learning
- 7. Budget and Resources
- 8. Innovative Leadership

Empowered leadership is critical as schools vision, plan, implement, and assess continually. Successful implementation of digital learning is contingent upon thoughtful staging of policies, leadership, and practices at the school and district levels.

Digital Learning Index

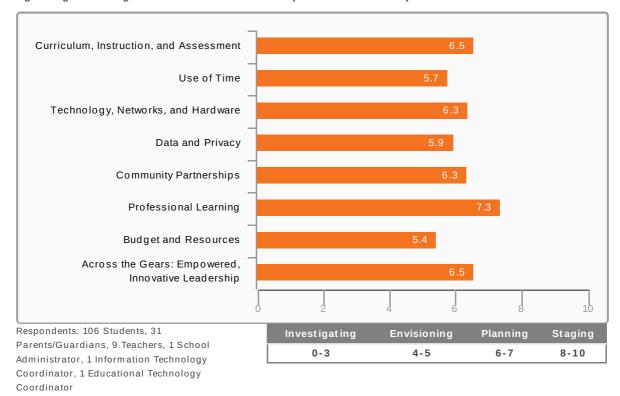
This figure charts the Digital Learning Implementation rating vs. the Digital Learning Readiness rating for each of the first five gears. The quadrants in which this school's ratings are charted are indicators of the school's progress to date in the respective Gears. The quadrant to aspire to is Q2 (Ready and Implementing). The quadrant to avoid is Q4 (Not Ready, yet Implementing).



The Digital Learning Readiness Rating is scored on a continuum from Investigating, to Envisioning, Planning, and Staging for implementation. Each of the Gear ratings is charted below on a scale of 0-10.

Digital Learning Readiness Rating

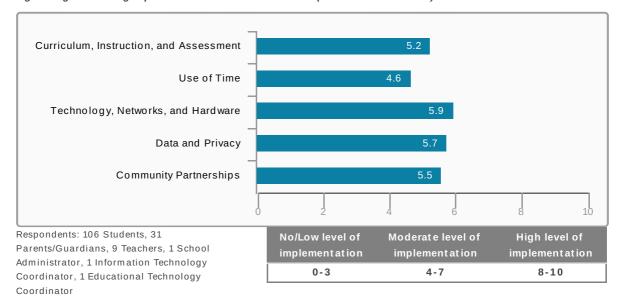
Figure: Digital Learning Readiness: Metiri Middle School (10/11/2017 - 05/26/2018)



A school's implementation rating represents the extent to which digital learning is implemented with students. The Digital Learning Implementation Rating is scored on a scale of 1-10 on a continuum from no/low implementation, to moderate, and then high implementation. Only 5 of the 8 gears are used to calculate the implementation score, since the other three gears do not directly impact students.

Digital Learning Implementation Rating

Figure: Digital Learning Implementation: Metiri Middle School (10/11/2017 - 05/26/2018)



Gear Overview

Gear Digital Readiness 6.5 of 10

of 10

Curriculum, Instruction, and Assessment

Gear Digital Implementation



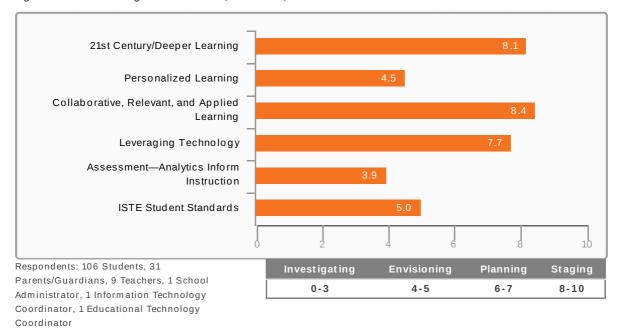
- 21st Century/Deeper Learning
- Personalized Learning
- Collaborative, Relevant, and Applied Learning
- Leveraging Technology
- Assessment—Analytics Inform Instruction
- ISTE Student Standards

Through a flexible, consistent, and personalized approach to academic content design, instruction, and assessment, teachers with the support of robust and adaptive tools can customize instruction for groups of students or on a student-to-student basis to ensure relevance and deep understanding of complex issues and topics. Providing multiple sources of high-quality academic content offers all students greater opportunities to personalize and reflect on their own work, think critically, and engage frequently to enable deeper understanding of complex topics. It is the learning needs of students that drive decisions related to technology, social media, and infrastructure. In this system, data and research are the building blocks of diagnostic, formative, and summative assessments—all of which are key elements in a system where learning is personalized, individualized, or differentiated to ensure learner success. Students and education professionals have access to up-to-date devices and high-speed broadband 24-hours-per day, 7-days-per-week (24/7).

Gear Report: Readiness Digital Learning

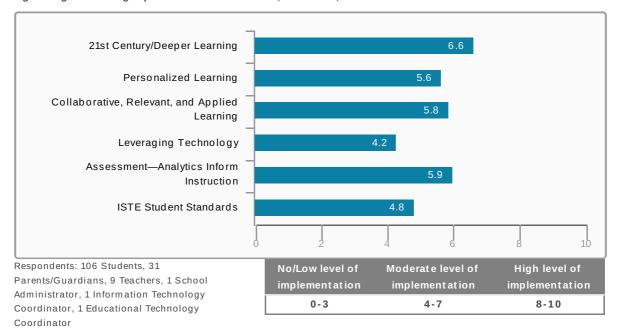
Maple Hill Middle School (10/11/2017 - 05/26/2018)

Figure: Readiness for Digital in Curriculum, Instruction, and Assessment



A school's implementation rating represents the extent to which digital learning is implemented with students. The Digital Learning Implementation Rating is scored on a scale of 1-10 on a continuum from no/low implementation, to moderate, and then high implementation. Only 5 of the 8 gears are used to calculate the implementation score, since the other three gears do not directly impact students.

Figure: Digital Learning Implementation in Curriculum, Instruction, and Assessment



Element: 21st Century/Deeper Learning

In classrooms where students are acquiring 21st Century/deeper learning, curriculum and instruction must be aligned with the vision for digital learning. Such work is predicated on the expectation that all students will leave the education system well prepared for college acceptance or for alternative paths to workplace readiness. These expectations are grounded in standards-based content and elements of deeper learning (e.g., critical thinking and decision making, creativity and innovation, bi-directional communication, research and information literacy, and self-direction). Opportunities for learning exist that empower all students to experience and master the core understandings related to that content.

School leaders adopt formal processes to systematically integrate 21st Century skills in support of a deeper learning model. All staff members are familiar with recent cognitive science research related to these skills and use the strategies recommended by that research as a design feature of all curricula and instruction.

Element Digital Readiness

8.1 of 10

Element Digital Implementation

6.6 of 10

Guiding Question 1: Curriculum Aligned to 21st Century Skills

Are classrooms in this school student-centered learning environments that foster 21st Century Skills?

CRITICAL THINKING SKILLS

67% of

STUDENTS said that their teachers teach them specific thinking skills.

When asked about the emphasis they place on critical thinking in their lessons/units,

TEACHERS reported: STRONG EMPHASIS

65% of

PARENTS/GUARDIANS report that

their child is being taught how to think critically.

Overall, SCHOOL

ADMINISTRATORS report that teachers

in the school place a STRONG

EMPHASIS on critical thinking.

Respondents: 106 Students, 31 Parents/Guardians, 9 Teachers, 1 School Administrator

CREATIVITY AND INNOVATION SKILLLS

65% of PARENTS/
GUARDIANS from this school reported that their child's creativity was being enhanced through the use of technology.

Overall, **TEACHERS** say they place

MODERATE EMPHASIS on creativity

WODERATE EWIPHASIS on creativity

and innovation in their classrooms.

Respondents: 31 Parents/Guardians, 9 Teachers

RESEARCH AND INFORMATION LITERACY SKILLS

70% of **STUDENTS** say they appropriately cite their sources when doing Internet research for assignments.

When asked about the emphasis that they place on research and information literacy in their classrooms, the most frequent answer from

TEACHERS was: MODERATE EMPHASIS.

87% of **PARENTS**/ **GUARDIANS** say that their child is conducting research on topics that are of interest/importance to him/her.

Overall, SCHOOL

ADMINISTRATORS say that teachers in this school place STRONG EMPHASIS on research and information literacy for learning.

Respondents: 106 Students, 31 Parents/Guardians, 9 Teachers, 1 School Administrator

COMMUNICATION IN THE CLASSROOM

When asked how frequently they use social media for learning, **STUDENTS** say **NEVER/RARELY**.

Overall, **TEACHERS** in this school say they place **STRONG EMPHASIS** on communication in their classrooms.

84% of PARENTS/
GUARDIANS say their child uses

technologies to communicate with other students as he/she learns online, (e.g., email, texting, online chats, videoconferencing, exchanging files).

Overall, SCHOOL

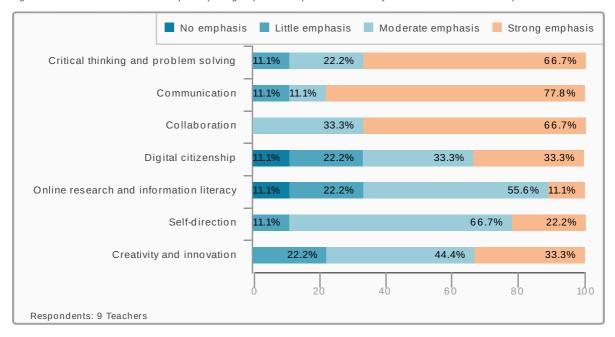
ADMINISTRATORS say teachers in this school place MODERATE

EMPHASIS on communication in their classrooms.

Respondents: 106 Students, 31 Parents/Guardians, 9 Teachers, 1 School Administrator

Teacher Emphasis on 21st Century Skills

Figure: The extent to which teachers reported placing emphasis on specific 21st Century skills in their unit and lesson plans.



ISTE Standards for Students 2016

These 21st Century Skills definitions are for the figure below.

Empowered Learner: Students leverage technology to take an active role in choosing, achieving and demonstrating competency in their learning goals, informed by the learning sciences.

Knowledge Constructor: Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts and make meaningful learning experiences for themselves and others.

Innovative Designer/Maker: Students use a variety of technologies within a design process to identify and solve problems by creating new, useful or imaginative solutions.

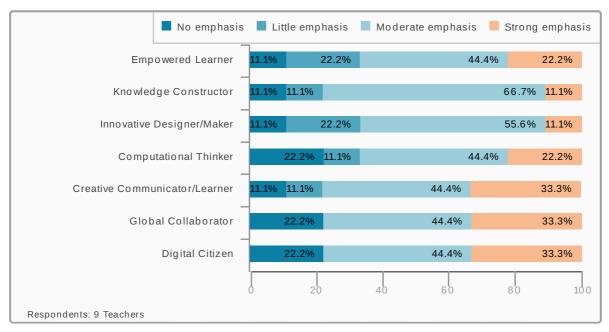
Computational Thinker: Students develop and employ strategies for understanding and solving problems in ways that leverage the power of technological methods to develop and test solutions.

Creative Communicator/Learner: Students communicate clearly and express themselves creatively for a variety of purposes using the platforms, tools, styles, formats and digital media appropriate to their goals.

Global Collaborator: Students use digital tools to broaden their perspectives and enrich their learning by collaborating with others and working effectively in teams locally and globally.

Digital Citizen: Students recognize the rights, responsibilities and opportunities of living, learning and working in an interconnected digital world, and they act and model in ways that are safe, legal and ethical.

Figure: The extent to which teachers reported placing emphasis on each of the following 21st Century skills.

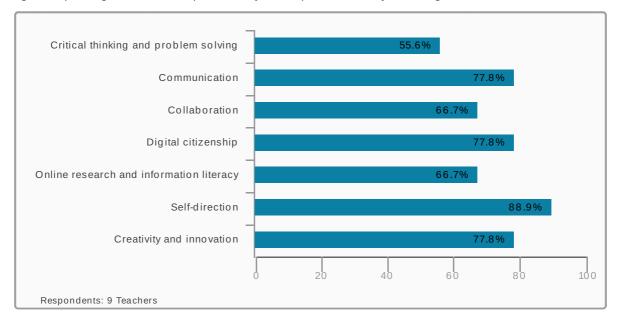


Guiding Question 2: Assessment of 21st Century Skills

To what extent are teachers monitoring and addressing the progress of all students for each of the 21st Century skills?

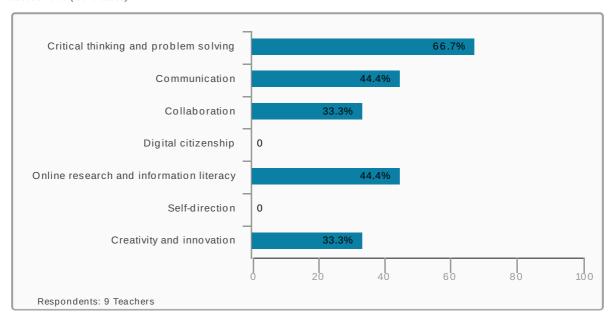
Assessing 21st Century Skills through Classroom Observation

Figure: The percentage of teachers who reported that they assess specific 21st Century skills through classroom observation.



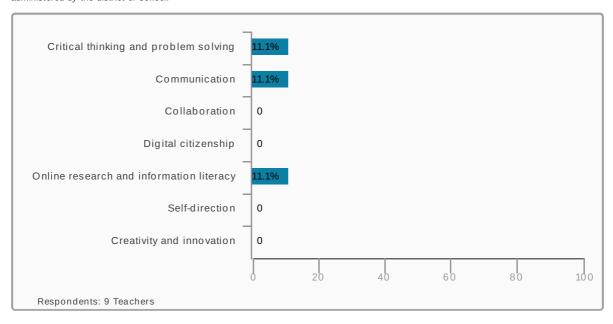
Assessment of 21st Century Skills through Rubric-Based Performance Assessments

Figure: The percentage of teachers who reported that specific 21st Century skills are assessed through classroom performance assessments (rubric-based).



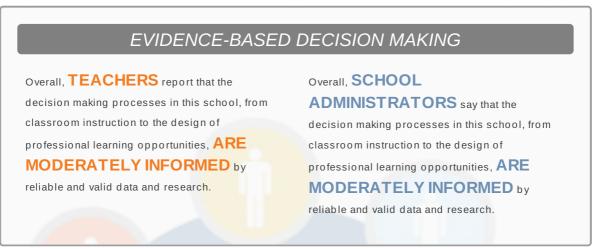
Assessment of 21st Century Skills Conducted Formally through District/School Instruments

Figure: The percentage of teachers who reported that specific 21st Century skills were embedded in the curriculum assessments formally administered by the district or school.



Guiding Question 3:

To what extent does instruction in the school embody recent cognitive science research on effective teaching and learning strategies (e.g., active learning, offering students choices, scaffolded learning, etc.)?



Respondents: 9 Teachers, 1 School Administrator

Element Digital Readiness 4.5 of 10

Element: Personalized Learning

Educators leverage technology, a range of digital learning resources, and the principles of Universal Design for Learning (UDL) to personalize the learning experience for each student. Students' learning is scaffolded through differentiation and individualization, and use competency-based learning to ensure all students attain mastery. Personalization is an approach to learning that is student-centric, where students have a significant degree of control and choice in what, when, and how they learn. It involves tailoring the content, pacing, and feedback to the needs of each student and empowering all students with choice, where they regulate and take ownership of significant aspects of their learning. In digital learning environments, all students are provided the opportunity to do authentic real-world work similar to that of professionals in the larger society. They collaborate with educators, fellow students, and others outside of the school environment on projects that often (1) involve the creation of knowledge products, (2) foster deep learning, and (3) have value beyond the classroom walls. This work is supported through connected teaching and engages other professionals, parents/guardians, and community members as appropriate.

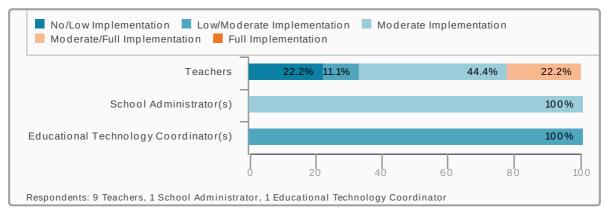


Guiding Question 1: Personalized Student-Centered Learning

Do the learning environments in the school encourage and support personalized, student-centered learning?

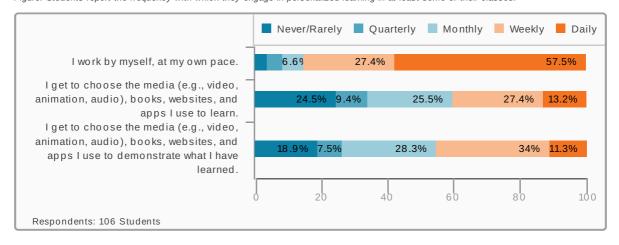
Current Implementation of Personalized Learning

Figure: The extent to which each respondent group perceives the school to be implementing personalized learning.



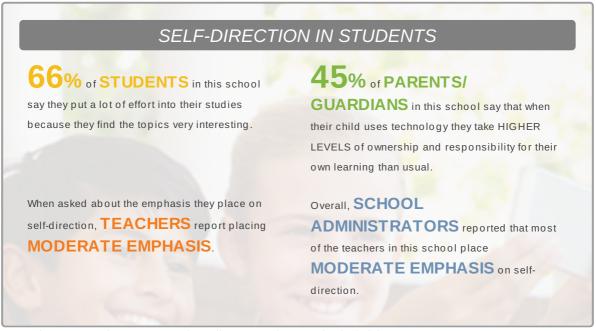
Student Indicators of Personalized Learning

Figure: Students report the frequency with which they engage in personalized learning in at least some of their classes.



Guiding Question 2: Student Voice, Choice, and Influence in Their Own Learning

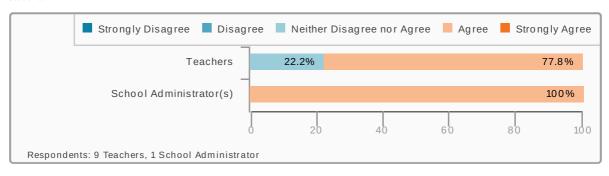
To what extent do students have choice and control in their own learning? Is the learning environment student-driven? Are students engaged and self-directed in learning?



Respondents: 106 Students, 31 Parents/Guardians, 9 Teachers, 1 School Administrator

Teachers Expected to Foster Self-Direction in Students

Figure: Teachers and school administrators level of agreement with the statement: "All teachers are expected to foster self-direction in students."



STUDENT RESEARCH AND INFORMATION LITERACY

70% of STUDENTS say that they appropriately cite their sources when using Internet research to complete assignments.

Overall, **TEACHERS** say they place

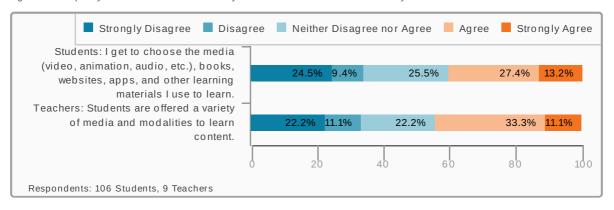
MODERATE EMPHASIS on online

research and information literacy in their lesson/unit plans.

Respondents: 106 Students, 9 Teachers

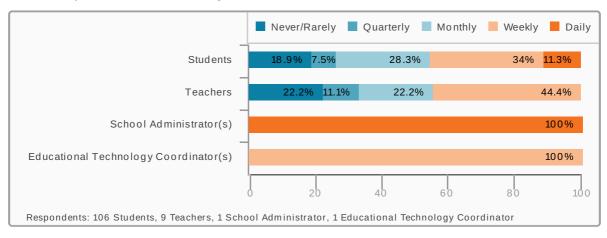
Student Choice in Media Used to Learn

Figure: The frequency that students and teachers say students have choice in the media they use to learn.



Student Choice in Media Used to Demonstrate What They Learn

Figure: The frequency that students, teachers, school administrators, and educational technology coordinators say students have a choice in the media they use to demonstrate their learning.



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Element: Collaborative, Relevant, and Applied

Element Digital Implementation

Learning

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Students are engaged in collaborative learning communities with peers, teachers, experts, and others outside the school environment. They are empowered through digital learning environments to do work similar to that of professionals in the larger society. Their projects often involve the creation of knowledge products, foster 21st Century skills/deeper learning, and have value beyond the classroom walls. Students are self-directed as well as cognitively, social-emotionally engaged in their learning.

Guiding Question 1: Collaborative Learning

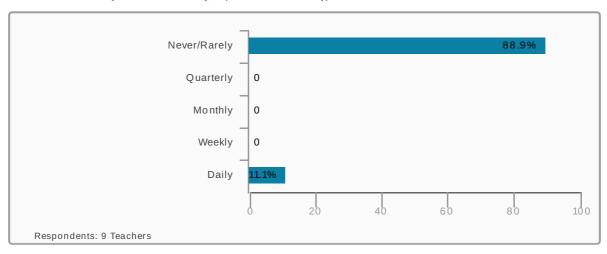
Are students frequently engaged in collaborative learning with peers, teachers, experts, and/or others from outside the school?



Respondents: 106 Students, 31 Parents/Guardians, 9 Teachers, 1 School Administrator

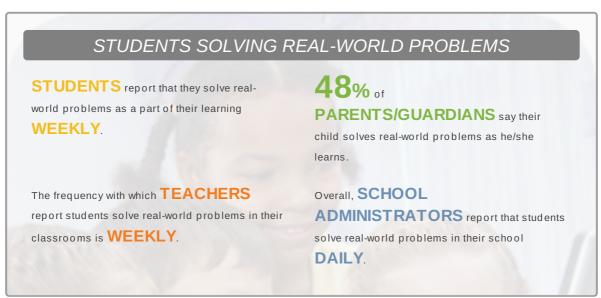
Students Collaborate with Persons Outside of School

Figure: The percentage of teachers reporting on how often their students collaborate with people outside of the classroom (e.g., another classroom across the city or across the country, experts in another country).



Guiding Question 2: Authentic Learning

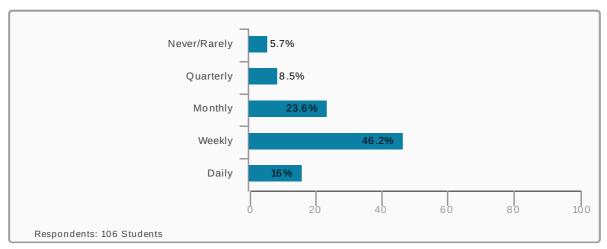
To what extent is the work that students are doing applied, relevant, and authentic? Does it have value beyond the classroom walls?



Respondents: 106 Students, 31 Parents/Guardians, 9 Teachers, 1 School Administrator

Student Perspective on Relevance of Research

Figure: The percentage of students reporting on how often they conduct research on topics that are of interest/importance to them.



STUDENTS RESEARCH TOPICS OF RELEVANCE

On average, **STUDENTS** report that they conduct research on topics that are of importance and relevance to them **WEEKLY**.

Overall, **TEACHERS** report that students in their classrooms conduct research on topics that are of interest/importance to them

QUARTERLY.

87% of PARENTS/GUARDIANS

say their child conducts research on topics that are of interest/importance to them.

Overall, SCHOOL

ADMINISTRATORS report that students in this school conduct research on topics that are of interest/importance to them WEEKLY.

Respondents: 106 Students, 31 Parents/Guardians, 9 Teachers, 1 School Administrator

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Element: Leveraging Technology

Education leaders set high expectations for evidence-based, digital learning transformations. They develop a culture of digital innovation as they redesign physical learning spaces and digital learning environments that integrate technology seamlessly into teaching, learning, and assessment. Specifically, this transformation may involve virtual learning, transition from paper to digital, digital citizenship and digital literacy for students. Student use of technology is dynamic; it empowers learning and ensures digital literacy and digital citizenship. Students learn in a culture of digital responsibility, and ethics prevail. All of this is dependent on 24/7 access to devices, broadband, and digital resources. Decisions related to technology, devices, networks, and infrastructure are driven by the learning needs of students in a culture of digital responsibility. The educators who teach in these digital learning environments have the skills to adopt and adapt to new technologies, using filters that ensure that the use of technology adds value to the learning process. Metrics are in place to document the schools' academic return on investment.

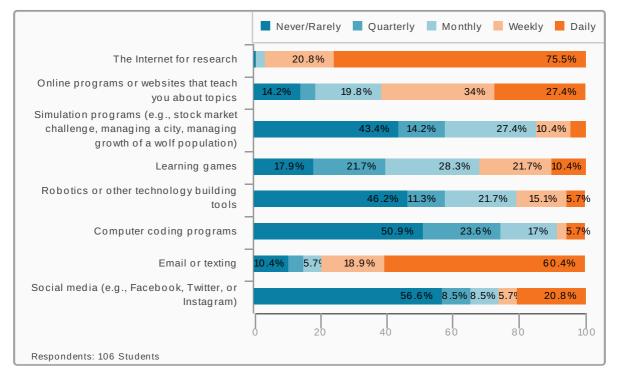
Element Digital Implementation 4.2 of 10

Guiding Question 1: Student Use of Technology for Learning

How and to what extent are students using technology for learning?

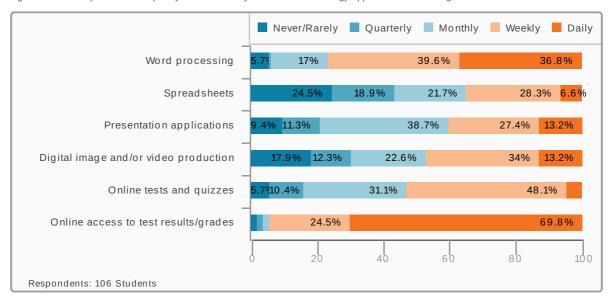
Student Use of Technology in School

Figure: Students report on the frequency with which they use various technology applications in school for learning.



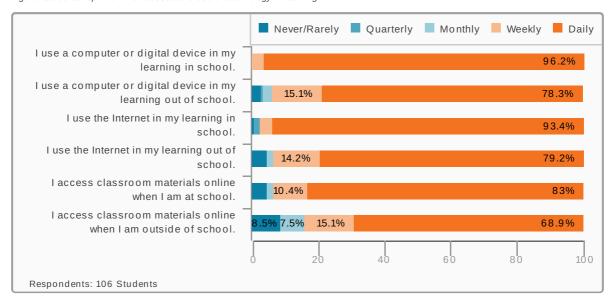
Student Use of Technology Applications for Learning

Figure: Students report on the frequency with which they use various technology applications for learning.



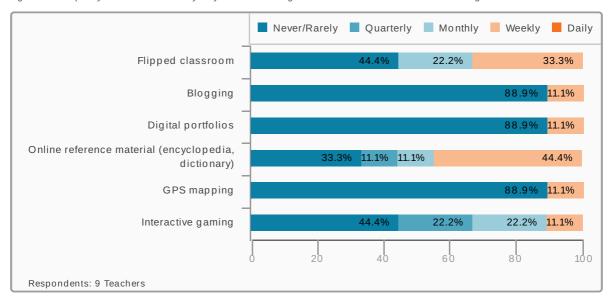
Student Access to Technology for Learning

Figure: Students report on their access and use of technology in learning.



Student Access to Technology for Learning

Figure: The frequency in which teachers say they use the following with students in their classroom for learning.

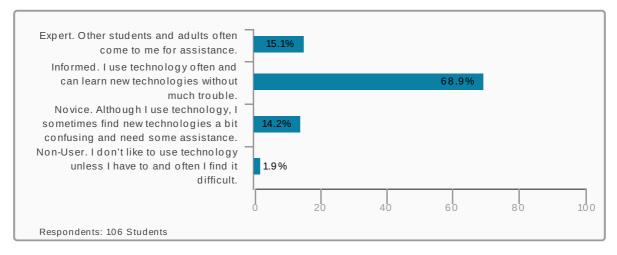


Guiding Question 2: Technologically Facile/Digital Citizens

To what extent are students and staff prepared to leverage technology effectively for learning? Are students demonstrating digital citizenship, digital literacy, and digital responsibility?

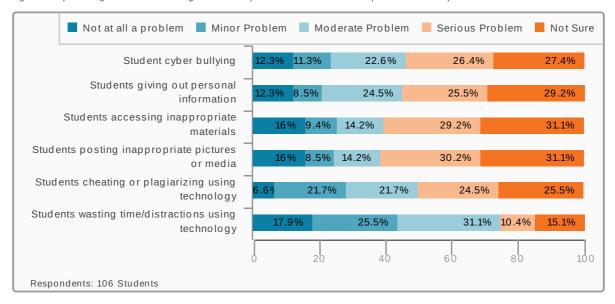
Students Describe Their Level of Expertise with Technology

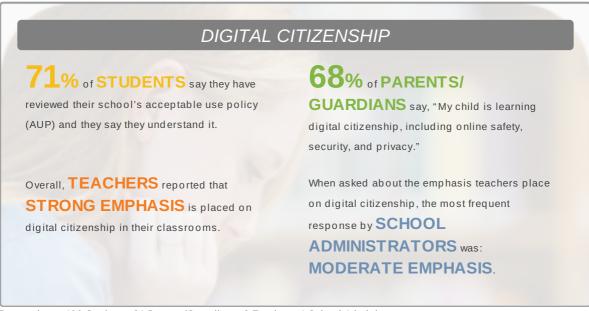
Figure: Students describe their own use of technology, factoring in both use at school and in their personal lives.



Cyber Issues

Figure: The percentage of students who agree that the specific issues listed below represent a serious problem in their school.

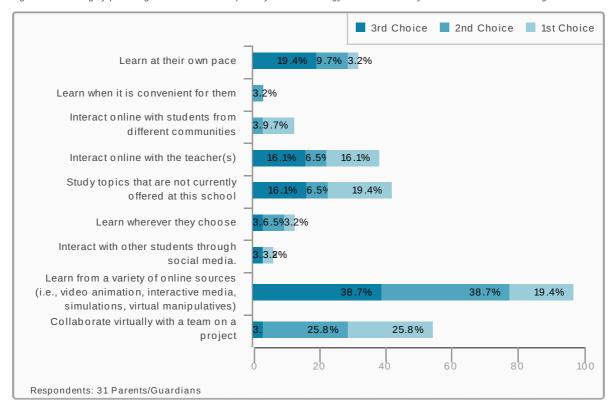




Respondents: 106 Students, 31 Parents/Guardians, 9 Teachers, 1 School Administrator

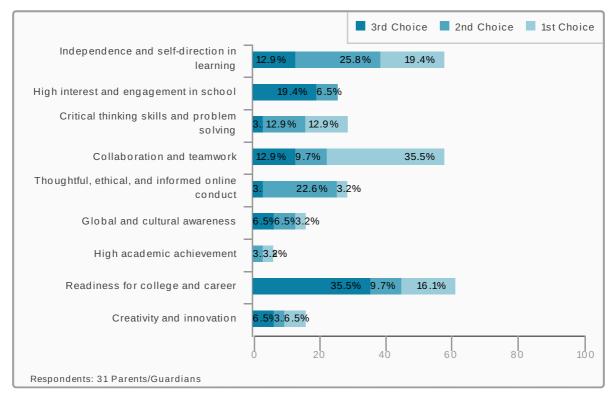
Top 3 Ways Technology Should Be Used to Increase Learning

Figure: The ranking by parents/guardians as to the top 3 ways that technology should be used by students to increase learning.



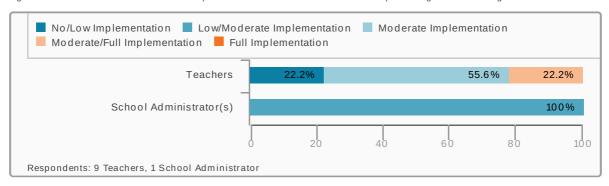
Top 3 Student Outcomes

Figure: The ranking by parents/guardians as to the top 3 potential student outcomes from the use of technology in learning.



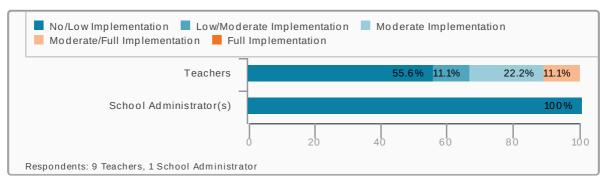
Blended Learning

Figure: Teachers and school administrators report on the extent to which the school is implementing blended learning.



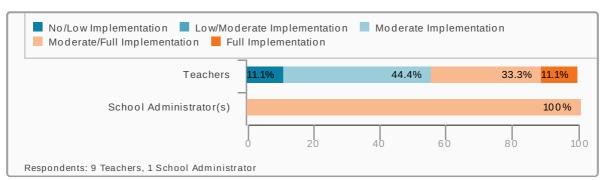
Online Courses for Students

Figure: Teachers and school administrators report on the extent to which the school is offering the option of online courses to students.



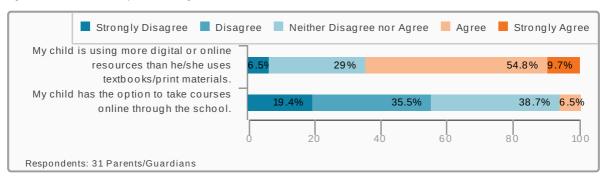
Digital Content, Digital Resources, Digital Tools

Figure: Teachers and school administrators report on the extent to which the school is offering digital content, digital resources, and digital tools to students.



Parents/Guardians Report on the Options Their Child has to Use Digital Resources and Online Classes

Figure: Parents/Guardians report on their agreement with each statement.



3.9

Element Digital Implementation

of 10

Element: Assessment—Analytics Inform

Instruction

Schools use technology as vehicles for quality diagnostic, formative, and summative assessments. Such assessments are aligned to the vision for digital learning and include assessments for all learning standards, 21st Century skills. Student projects involve peer review and revision, as well as self-assessment, empowering them to excel. The school system has mechanisms (i.e., processes and digital environments) that empower staff and students to use data to improve, enrich, and guide the learning process. Educators actively use data to guide decisions related to curriculum, content, instructional strategies, and assessments.

Guiding Question 1: School Data Culture?

Is there a data culture in the school? To what extent are data used to inform decision making by staff and students? Are student data records easily and securely accessible to staff and, where appropriate, to students and their parents/guardians? Do students track their own progress using data, self-assessment and peer review?

STUDENT USE OF DATA

% of STUDENTS say that they use grades and testing data to help them decide what to study next.

Overall, **TEACHERS** agree that their students TRACK their own progress against the learning goals/standards using assessment and other data.

84% of

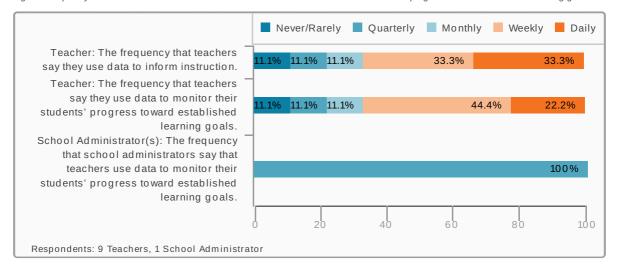
PARENTS/GUARDIANS say that their child uses data (i.e., grades, test results, feedback from teachers, etc.) to evaluate his/her own progress in learning.

Overall, SCHOOL **ADMINISTRATORS** say students in their school DO NOT TRACK their own progress against the learning goals/standards using assessment and other data.

Respondents: 106 Students, 31 Parents/Guardians, 9 Teachers, 1 School Administrator

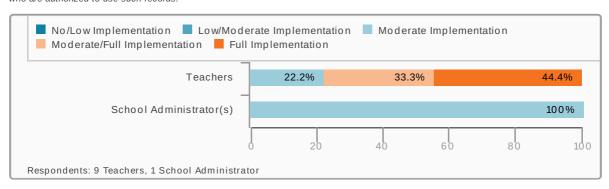
Teachers Use Student Data to Inform Instruction

Figure: Frequency with which stakeholders indicate that teachers use data to monitor student progress toward established learning goals.



Student Data Records - Accessible and Secure

Figure: Teachers and school administrators report on the extent to which student data records are easily and securely accessible to staff who are authorized to use such records.

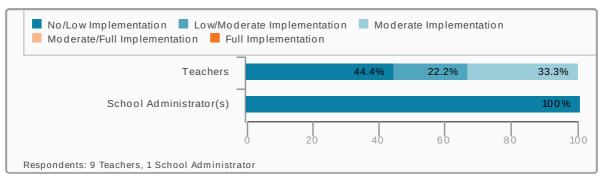


Guiding Question 2: Continuously Monitor and Inform Progress Toward Digital Learning

Is the school's progress toward its digital learning vision being monitored, reported on, and used to inform decision making?

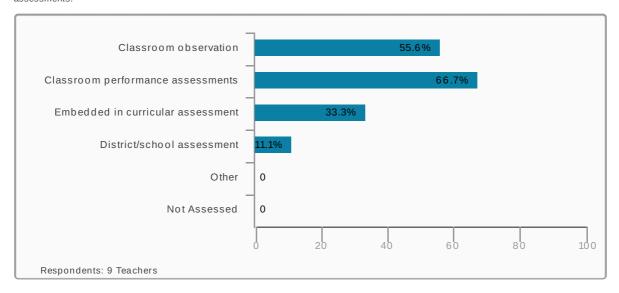
Metrics to Track Progress – Effective Use of Technology

Figure: Teachers and school administrators report on the extent to which the school (or district) is using established metrics to track how technology is leveraged to accelerate learning.



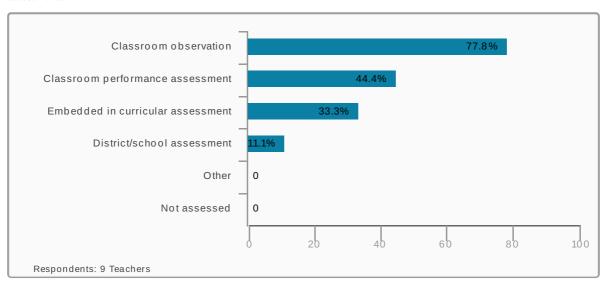
Metrics to Track Progress - Critical Thinking

Figure: The percentage of teachers who say their school's approach to assessing critical thinking includes the following types of assessments.



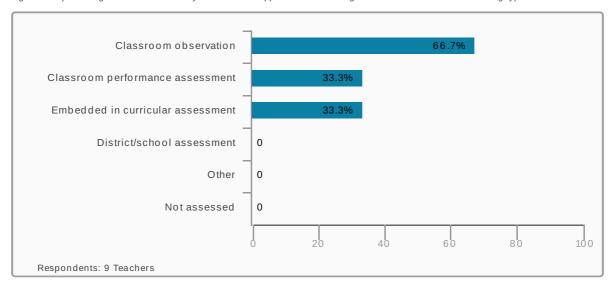
Metrics to Track Progress - Communication

Figure: The percentage of teachers who say their school's approach to assessing communication includes the following types of assessments.



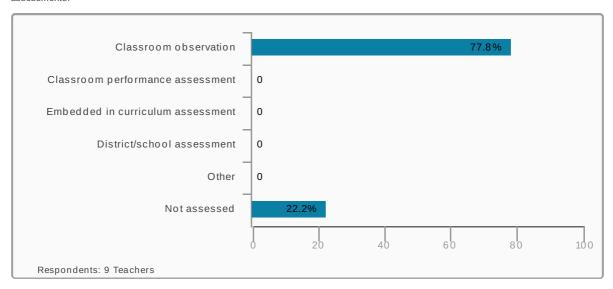
Metrics to Track Progress - Collaboration

Figure: The percentage of teachers who say their school's approach to assessing collaboration includes the following types of assessments.



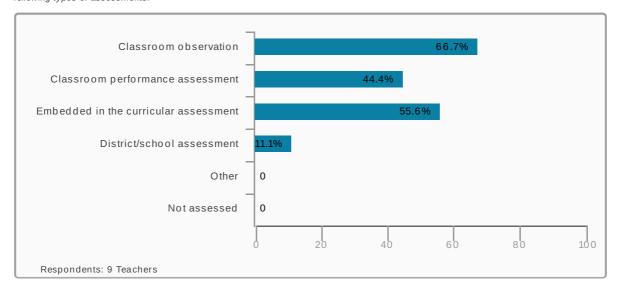
Metrics to Track Progress - Digital Citizenship

Figure: The percentage of teachers who say their school's approach to assessing digital citizenship includes the following types of assessments.



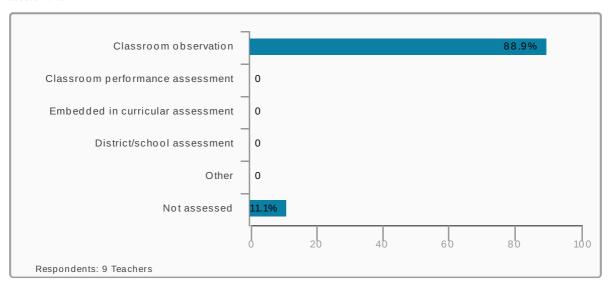
Metrics to Track Progress - Online Research and Information Literacy

Figure: The percentage of teachers who say their school's approach to assessing online research and information literacy includes the following types of assessments.



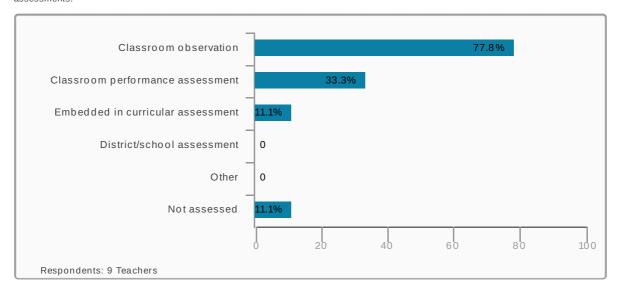
Metrics to Track Progress - Self-Direction

Figure: The percentage of teachers who say their school's approach to assessing self-direction includes the following types of assessments.



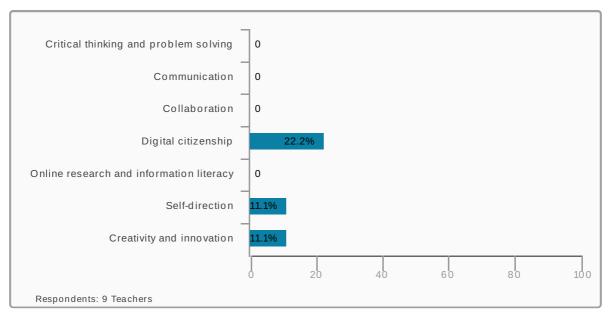
Metrics to Track Progress - Creativity and Innovation

Figure: The percentage of teachers who say their school's approach to assessing creativity and innovation includes the following types of assessments.



Metrics to Track Progress - Skills Not Assessed

Figure: The percentage of teachers and administrators who report that the 21st Century skills are not assessed at their school.



Element Digital Readiness

5.0 of 10

Element Digital Implementation

4.8 of 10

Element: ISTE Student Standards

Today's students must be prepared to thrive in a constantly evolving technological landscape. The ISTE Standards for Students are designed to empower student voice and ensure that learning is a student-driven process. The seven ISTE standards are: the Empowered Learner, Digital Citizen, Knowledge Constructor, Innovative Designer, Computational Thinker, Creative Communicator and Global Collaborator.

ISTE STUDENT STANDARDS

Each of the standards is defined below followed by evidence as to your students' progress in attaining them.

Respondents: 106 Students

EMPOWERED LEARNER

1a. Students articulate and set personal learning goals, develop strategies leveraging technology to achieve them and reflect on the learning process itself to improve learning outcomes.

3c. Students use technology to seek feedback that informs and improves their practice and to demonstrate their learning in a variety of ways.

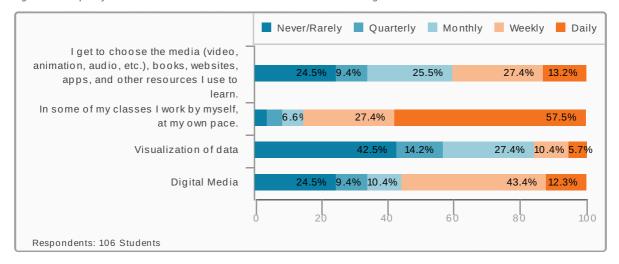
2b. Students build networks and customize their learning environments in ways that support the learning process.

4d. Students understand the fundamental concepts of technology operations, demonstrate the ability to choose, use and troubleshoot current technologies and are able to transfer their knowledge to explore emerging technologies.

Respondents: 106 Students

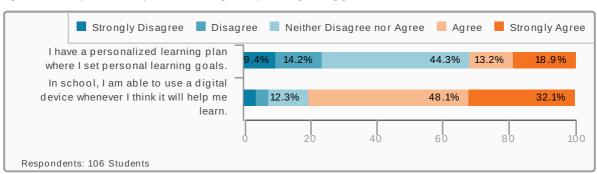
Student Choice

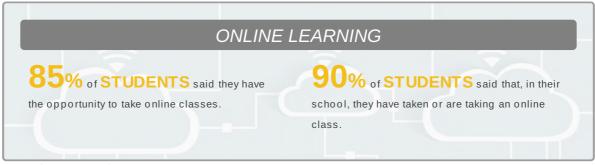
Figure: The frequency with which students have voice and choice in their own learning.



Learning Goals

Figue: Students report on their experiences in setting and implementing learning goals.

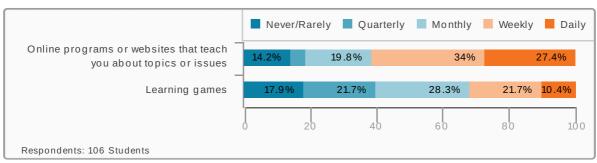




Respondents: 106 Students

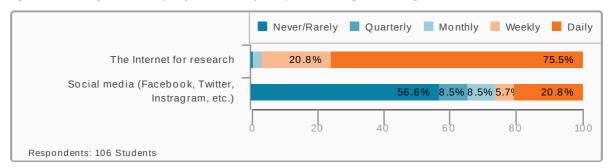
Learning Environments Amplified by Technology

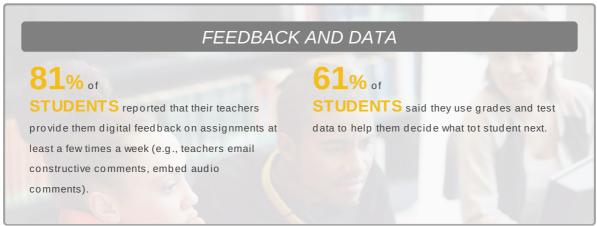
Figure: The frequency with which students are learning with technology.



Media

Figure: Students weigh in on the frequency with which they use specific technologies for learning.

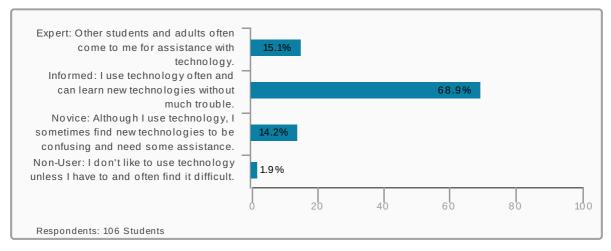




Respondents: 106 Students

Student Expertise with Technology

Figure: Students rate themselves on their level of expertise with technology.



STUDENT AGENCY IN TECHNOLOGY USE

36% of STUDENTS say they often explore new apps and software on their own with the intent of using what they find to help them with their schoolwork.

46% of STUDENTS reported that when they encounter an app, software, or other technology that does not work just right, they are usually able to troubleshoot it themselves and fix the problem.

Respondents: 106 Students

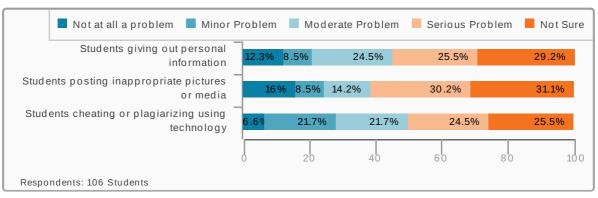
DIGITAL CITIZEN

- 2a. Students cultivate and manage their digital identity and reputation and are aware of the permanence of their actions in the digital world.
- 2c. Students demonstrate an understanding of and respect for the rights and obligations of using and sharing intellectual property.
- 2b. Students engage in positive, safe, legal and ethical behavior when using technology, including social interactions online or when using networked devices.
- 2d. Students manage their personal data to maintain digital privacy and security and are aware of data-collection technology used to track their navigation online.

Respondents: 106 Students

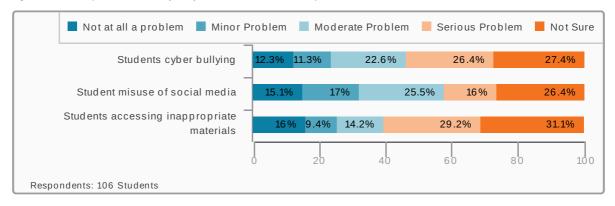
Cyber Issues - Identity and Reputation

Figure: Students report on the severity of cyber issues related to identity and reputation.



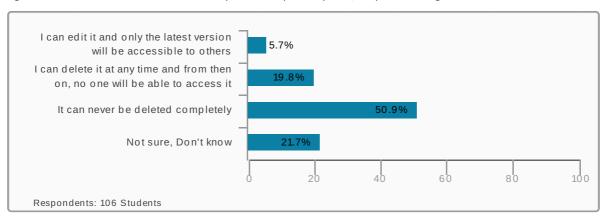
Cyber Issues: Online Practices

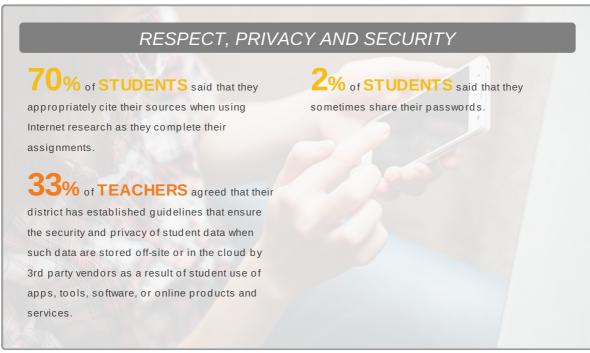
Figure: Students report on the severity of cyber issues related to online practicies in their school.



Permanance of Digital Actions

Figure: Students were asked to choose the best response to complete the phrase, "If I post something on the Internet:"





Respondents: 106 Students, 9 Teachers

KNOWLEDGE CONSTRUCTOR

3a. Students plan and employ effective research strategies to locate information and other resources for their intellectual or creative pursuits.

3b. Students evaluate the accuracy, perspective, credibility and relevance of information, media, data or other resources.

3c. Students curate information from digital resources using a variety of tools and methods to create collections of artifacts that demonstrate meaningful connections or conclusions.

3d. Students build knowledge by actively exploring real-world issues and problems, developing ideas and theories and pursuing answers and solutions.

Respondents: 106 Students

STUDENT RESEARCH

65% of **STUDENTS** say their teachers have shown them ways to search online that help them locate unbiased, credible sources.

When asked about how often they use the Internet for research, the most frequent **STUDENTS** response was **DAILY**.

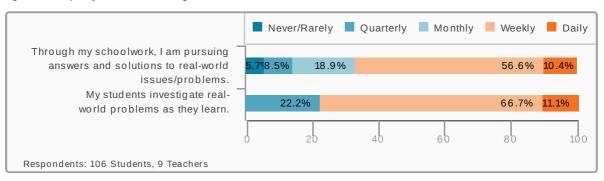
67% of STUDENTS say that their teachers teach them specific thinking skills such as asking good questions and using sound cropreasoning.

When asked how often they conduct research on topics that are of importance and relevant to them, the most frequent response from **STUDENTS** was **WEEKLY**.

Respondents: 106 Students

Real World Applications

Figure: The frequency of real-world learning in this school.



Internet ResearchFigure: Student perspectives

45% of STUDENTS say that their

school has taught them a specific process to use for all their Internet searches.

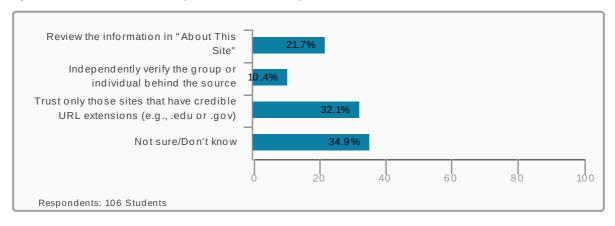
40% of STUDENTS report that when

they conduct research online, they create collections of source information in a digital format that they can search (i.e., curate sources).

Respondents: 106 Students

Avoid Fake News: Check Credibility of Sources

Figure: When asked the most reliable way to check out the credibility of a web source, students said:



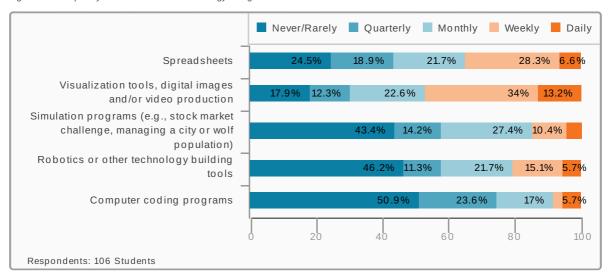
INNOVATIVE DESIGNER

- 4a. Students know and use a deliberate design process for generating ideas, testing theories, creating innovative artifacts or solving authentic problems.
- 4c. Students develop, test and refine prototypes as part of a cyclical design process.
- 4b. Students select and use digital tools to plan and manage a design process that considers design constraints and calculated risks.
- 4d. Students exhibit a tolerance for ambiguity, perseverance and the capacity to work with openended problems.

Respondents: 106 Students

Technology Design Tools

Figure: The frequency that students use technology design tools.



DESIGN TECHNIQUES AND OPPORTUNITIES

20% of STUDENTS report that, when trying to solve a complex problem, they use digital tools (e.g., flowcharts, word cloud, note taking, 3D designs) to design and map out a solution.

25% of **STUDENTS** report that they frequent Makerspaces at least once a month.

30% of STUDENTS say that they solve problems by designing and building a working model, testing it out and then redesigning and retesting until it works the way they think it should.

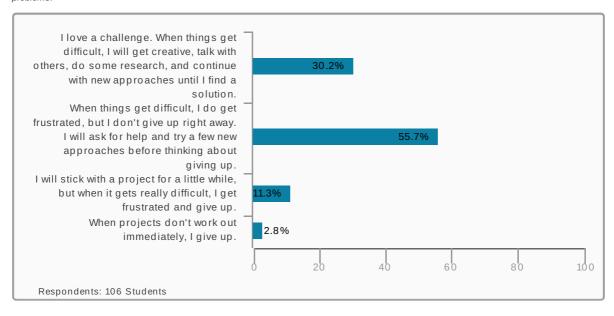
When teachers were asked the level of emphasis they placed on developing students as innovative designers/makers, the most prevalent response

by TEACHERS was MODERATE EMPHASIS

Respondents: 106 Students, 9 Teachers

Persistence in solving open-ended problems

Figure: The frequency with which stuents selected the following statements as descriptors of their persistence in solving open-ended problems.





5a. Students formulate problem definitions suited for technology-assisted methods such as data analysis, abstract models and algorithmic thinking in exploring and finding solutions.

5c. Students break problems into component parts, extract key information, and develop descriptive models to understand complex systems or facilitate problem-solving.

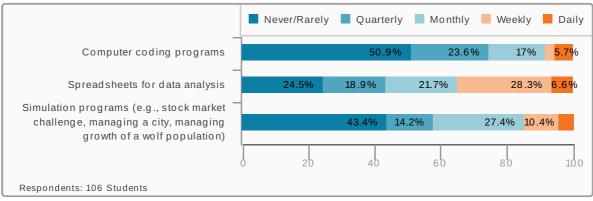
5b. Students collect data or identify relevant data sets, use digital tools to analyze them, and represent data in various ways to facilitate problem-solving and decision-making.

5d. Students understand how automation works and use algorithmic thinking to develop a sequence of steps to create and test automated solutions.

Respondents: 106 Students

Computational Thinker

Figure: The frequency with which students say they use the following in school for learning.



STRATEGIES FOR COMPUTATIONAL THINKERS

34% of STUDENTS agree that when solving a complex problem, visually sketching out various aspects of the problem helps them to figure out a solution.

28% of STUDENTS say that when explaining their solution to a problem, they often use digital chart, diagrams, and/or images to get their point across.

Respondents: 106 Students

CREATIVE COMMUNICATOR

6a. Students choose the appropriate platforms and tools for meeting the desired objectives of their creation or communication.

6c. Students communicate complex ideas clearly and effectively by creating or using a variety of digital objects such as visualizations, models or simulations.

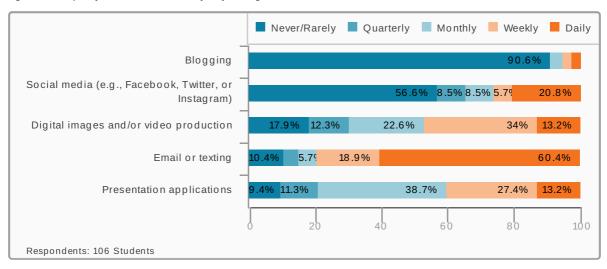
6b. Students create original works or responsibly repurpose or remix digital resources into new creations.

6d. Students publish or present content that customizes the message and medium for their intended audiences.

Respondents: 106 Students

Communication Tools

Figure: The frequency with which students say they use digital commication tools.



RESPONSIVE REMIXING AND REPURPOSING WORKS

52% of STUDENTS indicaed that, when repurposing or remixing someone else's work, (for example, remixing music, revising lines of a poem, creating new lyrics to a song, modifying a picture or graphic, etc.) they always asked for permission first.

Respondents: 106 Students

GLOBAL COLLABORATOR

7a. Students use digital tools to connect with learners from a variety of backgrounds and cultures, engaging with them in ways that broaden mutual understanding and learning.

7c. Students contribute constructively to project teams, assuming various roles and responsibilities to work effectively toward a common goal.

7b. Students use collaborative technologies to work with others, including peers, experts or community members, to examine issues and problems from multiple viewpoints.

7d. Students explore local and global issues and use collaborative technologies to work with others to investigate solutions.

Respondents: 106 Students

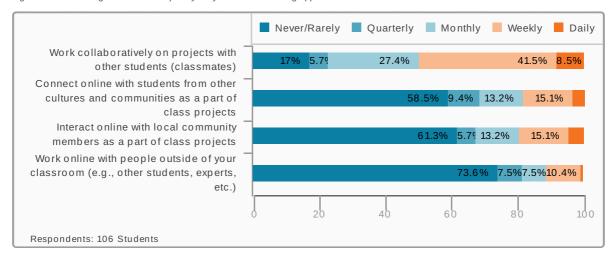
ONLINE COLLABORATION

25% of STUDENTS confirmed that online discussions with students from different cultures have helped them to see issues from different perspectives.

Respondents: 106 Students

Collaboration with Others Beyond the School

Figure: Students weigh in on how frequently they have the following opportunities in school.



Gear Overview

Gear Digital Readiness

5.7 of 10

Use of Time

Gear Digital Implementation





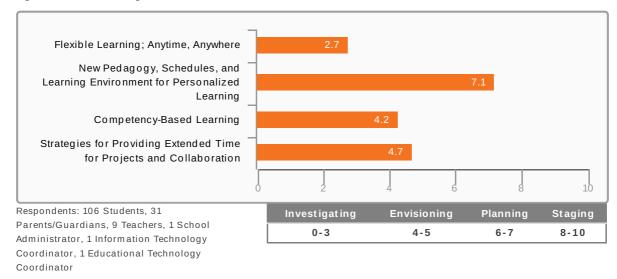
- Flexible Learning; Anytime, Anywhere
- New Pedagogy, Schedules, and Learning Environment for Personalized Learning
- Competency-Based Learning
- Strategies for Providing Extended Time for Projects and Collaboration

Student-centered learning requires flexibility and adaptability in the use of instructional time. Many schools are shifting away from Carnegie units to competency-based and personalized learning. Competency-based learning holds fixed the content and processes that the student needs to learn, but allows variability in the time each student takes to reach mastery. Personalized learning is student-centric, empowering students to have a significant degree of control and choice in what, when, and how they learn. Both adapt the learning to meet the needs of the learner, and both require innovative uses of technology to bring these concepts to scale. The technologies enable educators to transition classrooms to competency-based or personalized learning through: anywhere, anytime learning; diagnostic, formative and summative assessments; the management of learning; and the engagement of all students in learning, cognitively and emotionally. Such transitions require districts and schools to rethink and effectively leverage the use of instructional time.

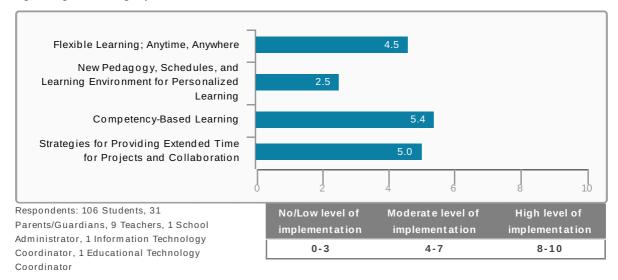
Gear Report: Readiness Digital Learning

Maple Hill Middle School (10/11/2017 - 05/26/2018)

Figure: Readiness for Digital in Use of Time



A school's implementation rating represents the extent to which digital learning is implemented with students. The Digital Learning Implementation Rating is scored on a scale of 1-10 on a continuum from no/low implementation, to moderate, and then high implementation. Only 5 of the 8 gears are used to calculate the implementation score, since the other three gears do not directly impact students.



Element Digital Readiness

2.7 of 10

Element: Flexible Learning; Anytime, Anywhere

By leveraging technology and media resources, online learning options are available for students at any time of day, from home, at school, and in the community. This enables students and teachers to use time innovatively, driven by student needs, interests, and preferences for learning. The key is flexibility and adaptability to meet the needs of the students.

Element Digital Implementation

4.5 of 10

Guiding Question 1: Offer Students Flexibility and Choice in Their Learning

To what extent has the school provided students with opportunities and choice in the use of technology for learning, including online classes, blended learning, media, digital content, asynchronous and synchronous learning, as well as face-to-face options?



71% of STUDENTS say that at least a few times a week at school, there are open times where they can make decisions about how they spend their time to learn."

Overall, SCHOOL

ADMINISTRATORS report that
operating on a bell schedule, with little flexibility
is A MODERATE barrier.

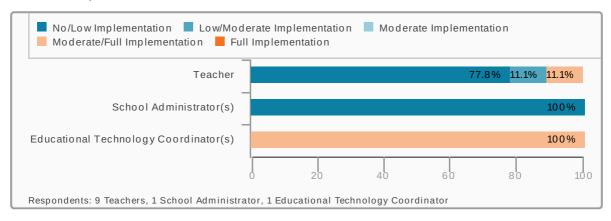
Respondents: 106 Students, 1 School Administrator

Guiding Question 2: Adaptable School Schedule

Has the school established a schedule that can be adapted to meet the needs of individual students?

Flexibility in Time and Schedules

Figure: The extent to which teachers, school administrators, and educational technology coordinators consider flexibility in time and schedules to be implemented in this school.



Gear Report: Use of Time

Element Digital Readiness

7.1 of 10

Element Digital Implementation

2.5 of 10

Element: New Pedagogy, Schedules, and

Learning Environment for Personalized

Learning

To facilitate more personalized learning, educators work together to identify and validate new designs for personalized learning wherein the use of time is adaptable and flexible. Associated resources are made available to all students both synchronously and asynchronously to promote flexibility.

Guiding Question 1: Personal Learning Plans with Variability

To what extent have educators worked with all students to create a personal learning plan for each student that includes variability based on need and choice?

PERSONAL LEARNING PLANS WITH VARIABILITY

32% of **STUDENTS** say they have a personalized learning plan, which they worked on with their teacher.

11% of TEACHERS say they work with each of their students to create a personal learning plan.

16% of PARENTS/GUARDIANS report "My

child and his/her teacher create a personal learning plan to meet my student's learning needs"

Overall, SCHOOL

ADMINISTRATORS report this statement IS NOT

REPRESENTATIVE of their school:

"Teachers in my school have worked with each of their students to create personal learning plans."

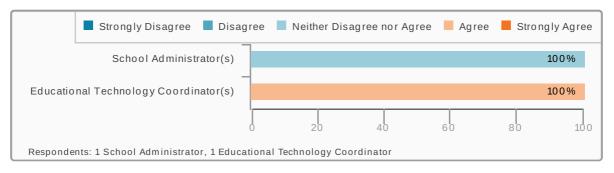
Respondents: 106 Students, 31 Parents/Guardians, 9 Teachers, 1 School Administrator

Guiding Question 2: Professional Learning that Addresses Personalized Learning in the Classroom

To what extent has the school provided professional learning and an implementation plan for teachers that foster personalized learning, competency-based learning, flexible learning plans, while incorporating technology options.

Offering Teachers Professional Development on Personalized Learning for Students

Figure: The percentage of school administrators and educational technology coordinators who say the district is providing teachers professional learning opportunities that empower them to personalize learning for their students.



Guiding Question 3: Learning Environments

To what extent has the school created a learning environment that enables personalized learning?

Features of the School's Digital Learning Environment

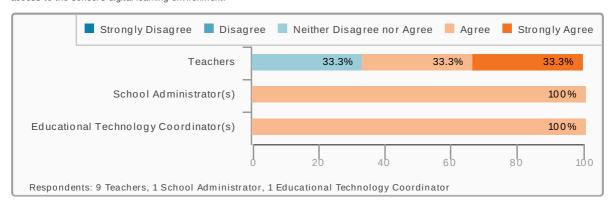
Figure: The percentage of school administrators who indicated that the following features of a digital learning environment are available now.

Item	Percent of Respondents
A web-based tool for students to access assignments and learning resources at school and at home (e.g., a web-based classroom space or learning management system)	100%
A method for students to submit and publish digital work online at school (e.g., shared network drive, online drop-box or locker)	100%
A method for students to submit and publish digital work online remotely (e.g., shared network drive, online drop-box or locker)	100%
Digital content and technology resources are available to personalize learning (e.g. e-versions of texts, instructional videos, teacher-made digital content, and open educational resources)	0%
Synchronous and/or asynchronous solution(s) for student-to-student and teacher-to student online collaboration (e.g., discussion threads, web conferencing, wikis, blogs)	100%
Off-site or after-hours access to the Internet (e.g., mobile devices, portable hot spots, free WI-FI access at public libraries and community centers, etc.)	100%

Respondents: 1 School Administrator

Access to the School's Digital Learning Environment

Figure: The percentage of teachers, school administrators, and educational technology coordinators who agree that their students have 24/7 access to the school's digital learning environment.



Element Digital Readiness



Element: Competency-Based Learning

Along with flexible schedules and as one facet of personalized learning, the pace of learning remains flexible, based on the needs of individual students and the challenges of complex, project-based work.

Element Digital Implementation

Guiding Question 1: Competency-Based Learning Implemented in School

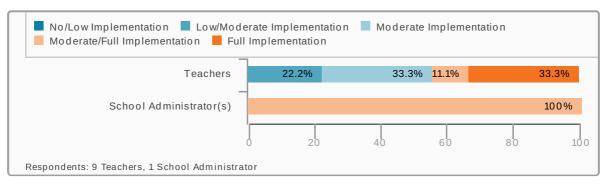
Has the school implemented competency-based learning as a key pedagogy for learning? If so, is there a school environment in place that supports competency-based learning (e.g., a system for the measurement of student achievement that accommodates time variability for mastery among students)?



Respondents: 106 Students, 9 Teachers

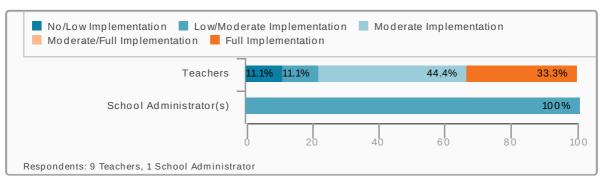
Measuring Progress Through Performance

Figure: Teachers and school administrators report on the extent to which their school is measuring student progress by performance and competence, rather than attendance/seat time.



Instruction Accommodates Variability in Pace of Student Learning

Figure: Teachers and school administrators report on the extent to which their school accommodates competency-based learning through reorganized grade books, assessments, content management systems, schedules, staffing, etc.



Element Digital Readiness of 10

Element Digital Implementation

of 10

Element: Strategies for Providing Extended

Time for Projects and Collaboration

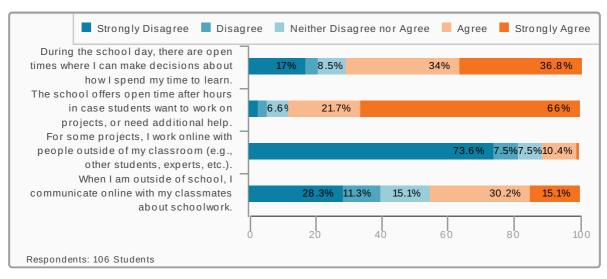
Rather than rigid schedules and short class periods, time allocations are flexible, allowing for extended work time for complex projects. Digital learning enables all students to productively use time during and beyond the school day; often repurposing what was previously homework time.

Guiding Question 1: Flexible Schedules and Collaborative Learning Spaces

Has the school established flexible schedules and/or alternative instructional practices that include blocks of extended, open time and collaborative learning spaces where students can collaborate or work individually on projects?

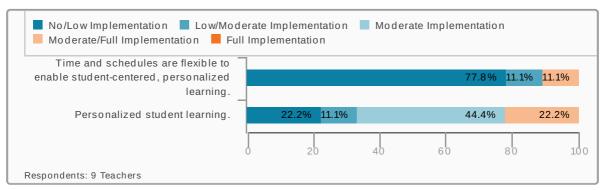
Instructional Practices that Extend Learning Time - Student Perspectives

Figure: The percentage of students who agree that each of the following strategies are practiced in their classrooms at least a few times a week.



Instructional Practices that Extend Learning Time - Teacher Perspectives

Figure: The level of implementation teachers report for this strategy in their schools.



Guiding Question 2: Do Educators Adjust Instruction to Meet Needs of Students

To what degree have educators in this school adjusted the use of instructional time depending on the scaffolding and support students require?

STUDENT PROJECTS AND COLLABORATION

33% TEACHERS report that students in their class(es) have a significant role in determining key aspects of their learning (e.g., what essential questions they investigate, how they use technology to learn, when they learn, with whom they learn, and when their projects are complete).

Overall, **TEACHERS** report they use social media (e.g., Facebook, Twitter, or Instagram) for instructional purposes in their classrooms **NEVER/RARELY**.

Respondents: 9 Teachers

Gear Overview

Gear Digital Readiness 6.3 of 10

Technology, Networks, and Hardware

Gear Digital Implementation





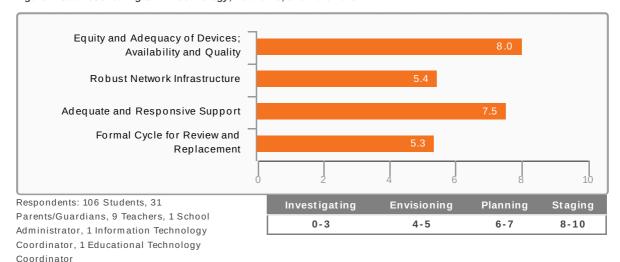
- Equity and Adequacy of Devices; Availability and Quality
- Robust Network Infrastructure
- Adequate and Responsive Support
- Formal Cycle for Review and Replacement

When employed as part of a comprehensive educational strategy, the effective use of technology provides tools, resources, data, and supportive systems that increase learning opportunities and promote efficiency and effectiveness. Many such environments use universal design for learning (UDL) specifications to enable anytime, anywhere learning for all students. Instructional approaches are based on competency and mastery. Within these environments, caring adults ensure that each student succeeds. High quality, high-speed technology and infrastructure systems within a school district and in each school are essential, however, the learning needs of students drive all decisions related to technology.

Gear Report: Readiness Digital Learning

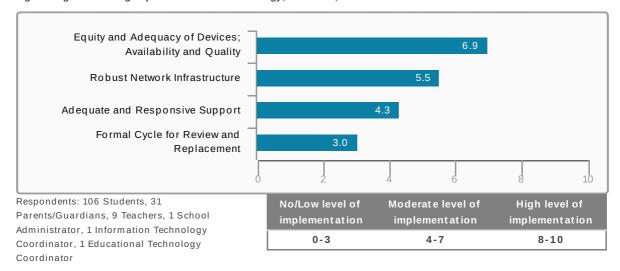
Maple Hill Middle School (10/11/2017 - 05/26/2018)

Figure: Readiness for Digital in Technology, Networks, and Hardware



A school's implementation rating represents the extent to which digital learning is implemented with students. The Digital Learning Implementation Rating is scored on a scale of 1-10 on a continuum from no/low implementation, to moderate, and then high implementation. Only 5 of the 8 gears are used to calculate the implementation score, since the other three gears do not directly impact students.

Figure: Digital Learning Implementation in Technology, Networks, and Hardware



Element Digital Readiness 8.0 of 10

Element: Equity and Adequacy of Devices;

Element Digital Implementation

Availability and Quality

6.9 of 10

The school has adopted diverse, creative, and environmentally sound options to ensure that appropriate Internet-ready technology devices are available to all students to support learning at any time. In all cases, the driver for change is the district vision for digital learning. Decisions regarding the purchase of devices are a collaborative process involving representation from curriculum, instruction, assessment, information technology, and business groups. In some cases, schools will achieve equitable access through a 1:1 program, through a "bring your own device" (BYOD) program, or a blended environment. Equitable access is 24/7 and often accomplished through school-community partnerships.

Guiding Question 1: Equitable access

Do all students have equitable access to high-speed Internet-connected devices in all of their classes? What level and quality (high-speed and reliable) of access is currently available for students and staff?

Research Tip: Learning Advantages to 1:1 Mobile Learning 24/7

The key advantage to 1:1 (student to device) is the 24/7 access this provides students with a device for learning. The student sets up the mobile device with favorite apps, contacts, and websites. It is through this device that students access their school's learning environment with all the learning resources, assignments, digital content, teacher and classmate connections, and data, now available 24/7. It becomes a critical component of their learning, always at the ready.

1:1 ACCESS TO DEVICES FOR STUDENTS

IT COORDINATORS classify this

school as 1:1 school wide.

IT COORDINATORS say the school
HAS A 1:1 student-to-device program in at

least some classrooms/grade levels.

SCHOOL ADMINISTRATORS

report 1:1 ACCESS in their school.

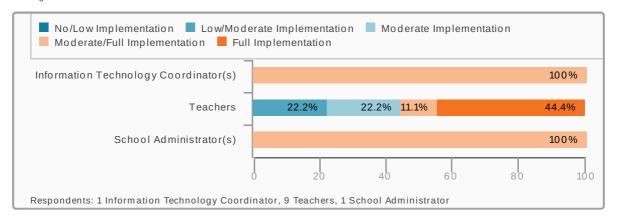
Respondents: 1 Information Technology Coordinator, 1 School Administrator

Research Tip: Learning in 2:1 or 3:1 (student to device ratio)

When the student-to-device ratio has not yet reached 1:1, the impact of technology in learning can still be very positive; it just isn't yet fully personalized for the student, nor 24/7.

Equitable Access to Technology for Learning

Figure: A comparison of the responses from the information technology, teachers, and school administrators coordinators on the extent to which students have access to up-to-date devices that would allow them to communicate, create, and collaborate effectively in their learning.



Type of Student Devices for Learning in School

Figure: The percentage of students who indicated they had the following types of access to devices in school.

lt em	Percent of Respondents
My school provides me with a personal digital device for the year.	96.2%
I bring my own digital device(s) to school to use for learning.	45.3%
I use a mixture of digital devices, depending on which class I am attending.	50%
I use computers in the school lab.	22.6%
None of the above.	0%

Respondents: 106 Students

BRING YOUR OWN DEVICE (BYOD)

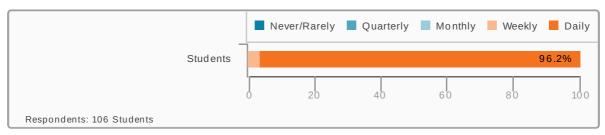
IT COORDINATORS say the school HAS A BYOD program, at least at some

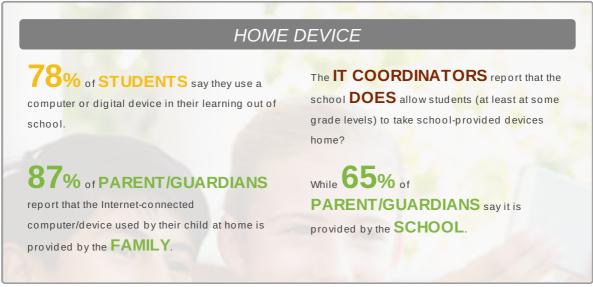
grade levels or in some classrooms.

Respondents: 1 Information Technology Coordinator

Frequency of Student Use of Technology for Learning

Figure: The frequency with which students say they learn with technology

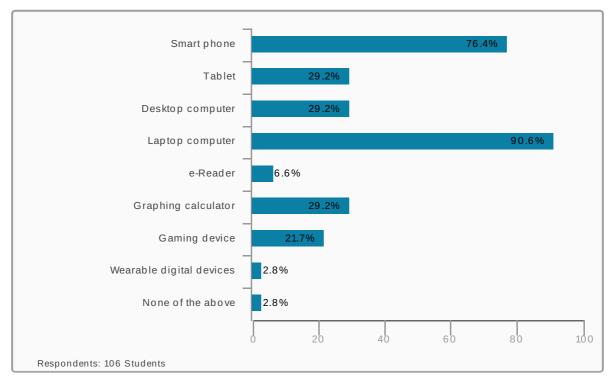




Respondents: 106 Students, 1 Information Technology Coordinator, 31 Parents/Guardians

Type of Student Devices for Learning at Home

Figure: The percentage of students who indicated that they had the following types of access to devices at home



Guiding Question 2: Clear, Collaborative Device Selection Process

Is the decision making approach for device selection clearly articulated, collaborative, and aligned to the curricular and instructional goals, whether it is 1:1, BYOD, or other?

IMPACT OF SCHOOL PLANNING ON DIGITAL LEARNING

Overall, 100% of IT

COORDINATORS report that technology

budgets are guided by academic planning.

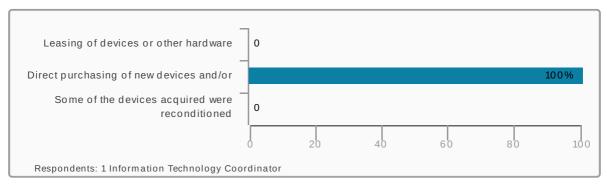
Overall, 100% of SCHOOL

ADMINISTRATORS report that the district/school's annual academic planning process informs and guides the budgetary decisions related to digital learning, technology, and infrastructure.

Respondents: 1 Information Technology Coordinator, 1 School Administrator

Acquisition Strategies

Figure: The percentage of information technology coordinators who indicated their schools used the device acquisition strategies listed.



Element Digital Readiness 5.4 of 10

Element Digital Implementation

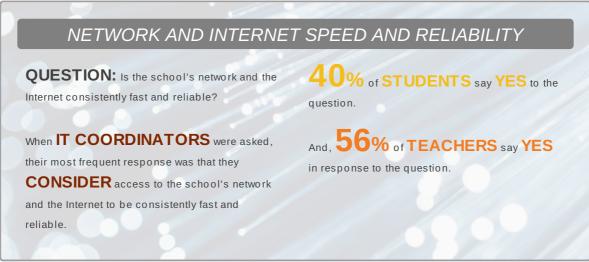
5.5 of 10

Element: Robust Network Infrastructure

A robust, environmentally sound infrastructure with high speed Internet bandwidth serves all schools. Teams monitor usage and identify and remedy possible bottlenecks prior to detrimental impacts on teaching and learning. Administrative processes and procedures are developed to maintain, operate, update, and govern the network. The infrastructure includes access to a digital learning platform that includes: a content management system (CMS); a learning management system (LMS); a referatory (i.e., database that refers user to appropriate sources) for apps, software, and other services aligned to the curriculum; a communication system; collaboration tools; and online and embedded assessments; etc. This platform ensures ready and consistent access to tools, resources, and communications for teaching, learning, assessment, and administration. The school community collaboratively designs, communicates, and implements responsible use policies with students and staff. Meanwhile, the network design follows these policies (e.g., filtering, redundancy, etc.). The infrastructure adequately serves various programs for students and staff, including 1:1 and BYOD, often by portioning the network to accommodate guest access. Funding for the infrastructure is consistent, driven by instructional needs in the district's strategic plan. As policies are developed to guide the design and use of the network, there is strict coherence between law and enacted policy.

Guiding Question 1: Infrastructure

Is Internet access high speed, and is the network infrastructure responsive to the learning needs of students and staff?



Respondents: 106 Students, 1 Information Technology Coordinator, 9 Teachers

ACCESS TO INTERNET BANDWIDTH

Overall, IT COORDINATORS say the school HAS COMMITTED to meeting

the national standard for bandwidth.

Overall, SCHOOL

ADMINISTRATORS say this school has

SUFFICIENT Internet bandwidth to the meet
learning needs of students.

The NATIONAL STANDARD for

bandwidth for 2016 is at least 100 Kbps per student/staff connection.

Respondents: 1 Information Technology Coordinator, 1 School Administrator

ADJUSTMENTS DUE TO DIGITAL LEARNING LOAD

The IT COORDINATORS DO NOT REGULARLY ADJUST traffic and/or

network configurations based on a review of the data on instructional and administrative traffic.

As digital learning needs increase, the T

COORDINATORS, say network functions
HAVE NOT had to be restricted (e.g.,
downloading or streaming video, uploading
video, emailing large attachments, etc.).

Respondents: 1 Information Technology Coordinator

Current Network Services/Functions

Figure: The percentage of information technology coordinators who indicated the school has these services/functions in place.

Item	Percent of Respondents
District as Internet Service Provider (ISP) for my school	0%
High speed Internet across integrated network	0%
Guest access to the network	100%
Cloud solutions and services	100%
Device management/digital asset solution	100%
Heat map of buildings for Wi-Fi planning	0%
Filtering system	100%
Leveraging E-Rate	100%
Automated system performance analysis	0%
Integrated infrastructure to meet demands district wide	0%
Software as service (SaaS) (Licensing a service that is hosted by a 3rd party)	0%
None of the above	0%

Respondents: 1 Information Technology Coordinator

Guiding Question 2: Network Maintenance

Is the network proactively maintained and updated? Are there established decision-making processes for establishing network-related policies?

QUESTION: Does the school has a governance structure in place that designates rules, procedures, and individual groups responsible for student and staff privacy, security, and online safety? SCHOOL ADMINISTRATORS say YES

Respondents: 1 Information Technology Coordinator, 1 School Administrator

7.5 of 10

Element Digital Implementation

4.3 of 10

Element: Adequate and Responsive Support

The technical assistance provided within the schools is characterized by a positive service orientation, supporting the learning needs of students and educators. The maintenance, operations, and management of the systems is ongoing, with users notified when updates or regularly scheduled maintenance are scheduled. This system quickly and efficiently meets all staff and students' technical assistance needs in the schools. It is increasingly proactive in providing resources, coaching, and just-in-time instruction that prepares teachers and students to troubleshoot basic maintenance issues as they occur. Ultimately, this reduces the need for external support during the instructional day.

INSTRUCTIONAL AND TECHNICAL SUPPORT

0% of **STUDENTS** say that Internet problems are usually fixed within 24 hours.

89% of TEACHERS say that Internet problems are usually fixed within 24 hours.

On average, the **IT COORDINATORS** say that **STUDENTS ARE NOT** trained to handle simple technical assistance tasks.

On average, the SCHOOL

ADMINISTRATORS say that the district/school PROVIDES instructional support to all staff on using technology to empower students to learn (e.g., coaching, vetted digital content, classroom management, collaborative exchanges, lesson design and modeling, etc.).

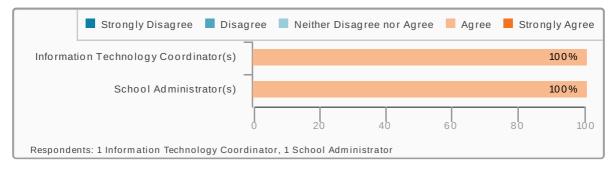
Respondents: 106 Students, 1 Information Technology Coordinator, 9 Teachers, 1 School Administrator

Guiding Question 1: Emphasis on Student Learning Needs

Are the learning needs of students and educators adequately supported? How responsive is the technical assistance team? To what extent does the team have a customer service orientation?

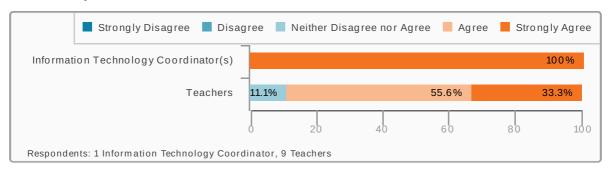
Instructional Support

Figure: The percentage of information technology coordinators and school administrators who agree with the following statement, "Our district/school provides instructional support to all staff on using technology to empower students to learn (e.g., coaching, vetted digital content, classroom management, collaborative exchanges, lesson design and modeling, etc.)."



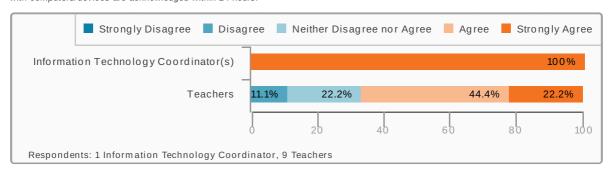
Timeliness of Technical Support for Internet Issues

Figure: The percentage of information technology coordinators and teachers who agree with the following statement: "Problems with the Internet are usually fixed within 24 hours."



Timeliness of Technical Support for Hardware Issues

Figure: The percentage of information technology coordinators and teachers who agree with the following statement: "Reported problems with computers/devices are acknowledged within 24 hours."

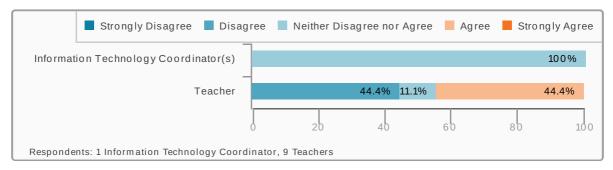


Guiding Question 2: Staff and Student Training

To what extent are staff and students trained and given access required to handle simple maintenance and troubleshooting in order to reduce interruptions to instructional time?

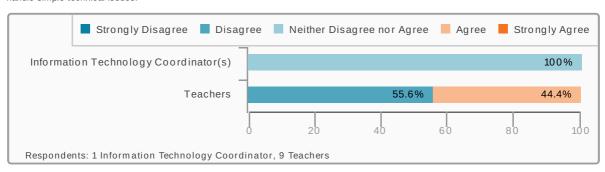
Students Trained to Troubleshoot

Figure: The percentage of information technology coordinators and teachers who agree with the following statement: "In our school students are trained to handle simple technical assistance tasks."



Staff Trained to Troubleshoot

Figure: The percentage of information technology coordinators and teachers who agree with the following statement: "Staff are trained to handle simple technical issues."



Element: Formal Cycle for Review and

Element Digital Implementation

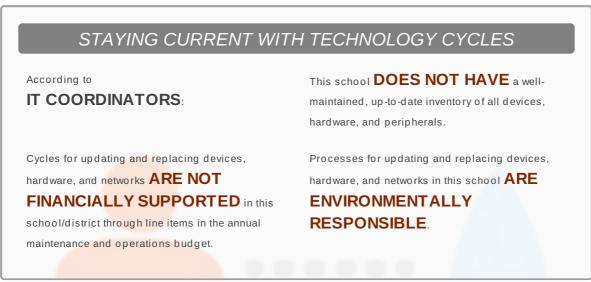
Replacement

3.0 of 10

There is a formal cycle for review, upgrades, and/or replacement; teams continuously monitor technologies (e.g., software, hardware, and infrastructure) for needed upgrades, purchases, and, when called for, sunsetting of technologies. The latter is done in a timely, environmentally appropriate, and proactive manner.

Guiding Question 1: Replacement Cycle

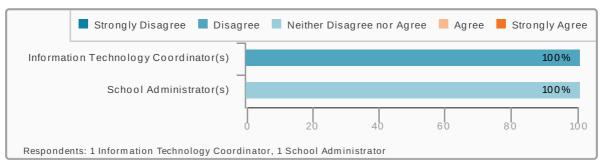
Is there a formal process and/or cycle for hardware and software upgrades and/or replacements? Is the process environmentally sound? Is the cycle supported fiscally? Are there dedicated funds in the annual maintenance and operations budget?



Respondents: 1 Information Technology Coordinator

Staying Current with Technology Cycles

Figure: The extent to which information technology coordinators and school administrators agree with the following statement: "Our district/school has a system for analyzing total cost of ownership (TCO) (i.e., direct and indirect costs) across the life cycle of the technology. This system is used to plan and to project upgrade and replacement cycles."

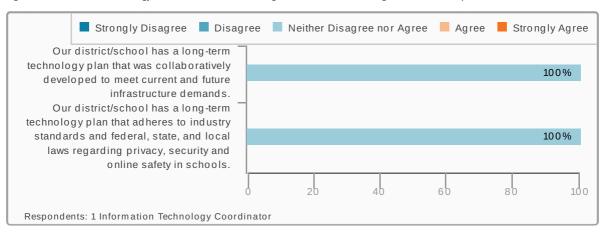


Guiding Question 2: Long-Range Plans

What are the long-range plans to upgrade existing network and hardware to meet the future educational demands?

Long-Range Plans to Meet Future Technology Needs

Figure: The information technology coordinators indicate their agreement with the following statements as representative of their school.



Gear Overview

Gear Digital Readiness 5.9 of 10

Data and Privacy

Gear Digital Implementation

5.7 of 10



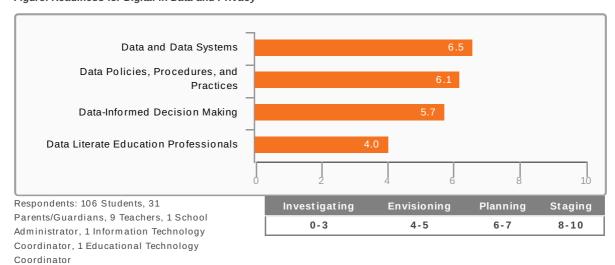
- Data and Data Systems
- Data Policies, Procedures, and Practices
- Data-Informed Decision Making
- Data Literate Education Professionals

Data, privacy, and security are foundational elements of digital learning. A personalized, learner-centered environment uses technology to collect, analyze, organize, and access data to improve the effectiveness and efficiency of learning. The district ensures that sound data, privacy, and security policies, procedures, and practices are in place and adhered to at the district, school, classroom, and student levels. The district and school based policies and procedures on the guidelines from TRAx statutes include the Family Educational Rights and Privacy Act (FERPA), the Child Internet Protection Act (CIPA), and the Children's Online Privacy Protection Act (COPPA).

Gear Report: Readiness Digital Learning

Metiri Middle School (10/11/2017 - 05/26/2018)

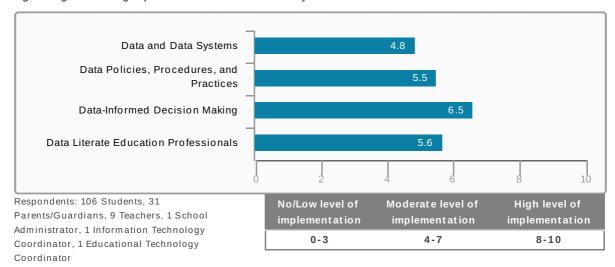
Figure: Readiness for Digital in Data and Privacy



A school's implementation rating represents the extent to which digital learning is implemented with students. The Digital Learning Implementation Rating is scored on a scale of 1-10 on a continuum from no/low implementation, to moderate, and then high implementation. Only 5 of the 8 gears are used to calculate the implementation score, since the other three gears do not directly impact students.

Maple Hill Middle School (10/11/2017 - 05/26/2018)

Figure: Digital Learning Implementation in Data and Privacy



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Element: Data and Data Systems

To facilitate data-informed decision making, appropriate data are readily available, easily comprehensible, and useful for supporting the decision making processes. The data are available at any time, on any desktop, and from any location; made available through real-time access to data dashboards, data analytics, and data warehouses.

Element Digital Implementation

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Guiding Question 1: Comprehensive Data System

To what extent has the school established a data system that integrates a student information system, data analytics, and an on-demand data reporting system with the classroom digital learning environment; where authorized users (e.g., students, teachers, administrators, parents/guardians) have access to diagnostic, summative, and formative data as well as student records?

DIGITAL DATA SYSTEM

The IT COORDINATORS report that the teachers in this school HAVE ACCESS to a digital environment that enables them to access, collect, analyze, manage, and integrate multiple data sets to inform learning and teaching decisions.

The SCHOOL ADMINISTRATORS say that the teachers in this school HAVE ACCESS to a digital environment that enables them to access, collect, analyze,

manage, and integrate multiple data sets to inform learning and teaching decisions.

Respondents: 1 Information Technology Coordinator, 1 School Administrator

Guiding Question 2: Integrated Data Dashboard for Educators

Do all educators have access to a comprehensive data dashboard that integrates student records with student diagnostic, formative, and summative data?

INTEGRATED DATA DASHBOARD

The IT COORDINATORS says the district/school's information systems ARE INTEGRATED across instructional, administrative, and business systems.

56% of TEACHERS say they have access to a digital environment in their school through which they access, collect, analyze, manage, and integrate multiple data sets to inform learning and teaching decisions.

Respondents: 1 Information Technology Coordinator, 9 Teachers

Element Digital Readiness

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of 10

Element: Data Policies, Procedures, and

Element Digital Implementation

5.5

Practices

Using the Family Educational Rights and Privacy Act (FERPA), the Child Internet Protection Act (CIPA), and the Children's Online Privacy Protection Act (COPPA) as the basis, the district has up-to-date policies, procedures, and practices that address legal, ethical, and safety issues related to the privacy and security of data, and the usage of data, technology, and the Internet. Such policies, procedures, and practices address the collecting, storing, analyzing, reporting, exchanging, and archiving of data; as well as the usage of data, the Internet, and technology by all students and education professionals in the course of teaching, learning, communication, and the management of school services.

Guiding Question 1: Protocols for Data Collection, Retrieval, and Storage/Archiving

Has the school established a review process at the school that provides guidelines and review prior to any collecting, storing, analyzing, reporting, exchanging, and archiving of data by school personnel? Is the process evaluated and adjusted as needed?

Governance Regarding Data Collection

Figure: The extent to which school administrators agree that the district/school has established protocols and review processes prior to any collecting, storing, analyzing, reporting, exchanging, or archiving of data by district or school personnel.

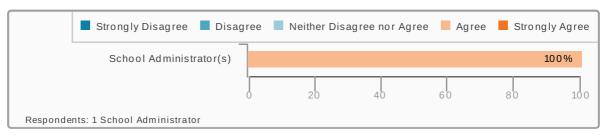
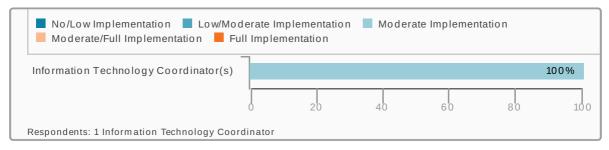
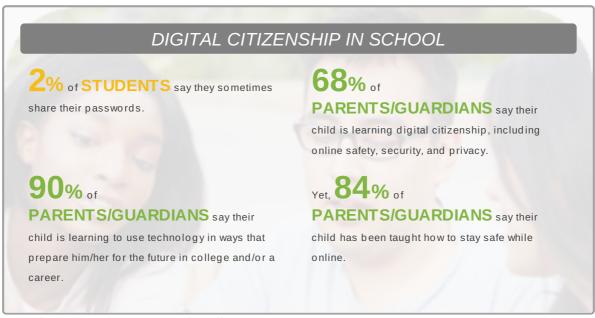


Figure: The extent to which information technology coordinators indicate that the district/school has implemented protocols and review processes prior to any collecting, storing, analyzing, reporting, exchanging, or archiving of data by district or school personnel.



Guiding Question 2: Building Digital Citizenship in Students

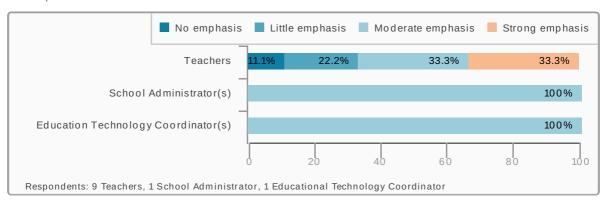
To what extent are educators explicitly building digital citizenship with their students to ensure student safety, security, and privacy? Are students practicing good habits online that will keep them safe and secure, and will maintain their privacy? Does the school have an up-to-date plan in place for parental/guardian involvement in these efforts? To what extent does the plan provide materials and training to help parents/guardians work with their children's academic achievement?



Respondents: 106 Students, 31 Parents/Guardians

Emphasis on Digital Citizenship in School

Figure: The level of emphasis the teachers, school administrators, and educational technology coordinators say is placed on digital citizenship in this school.

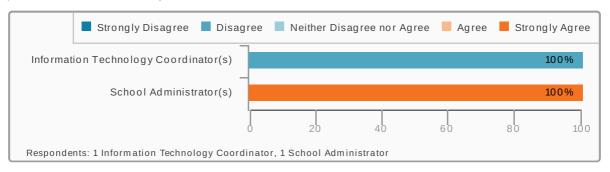


Guiding Question 3: Checklists and Guidelines to Protect Student Data and Ensure Privacy

Has the school established guidelines and a review process for teachers who are using apps, websites, blended learning and other uses that require student Internet access regarding data privacy and security for the possibility of student data generated and stored by third parties? (Implies teachers are familiar with statutes.)

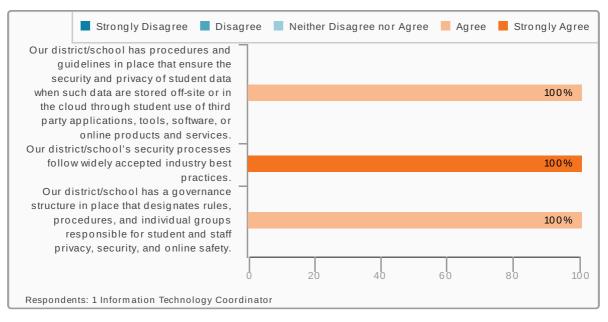
Network Privacy and Security

Figure: The extent to which information technology coordinators and school administrators agree that network privacy and security procedures are monitored and strictly enforced in this school.



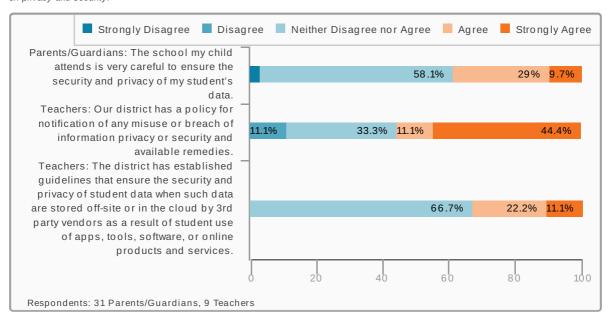
Security and Privacy Procedures

Figure: The extent to which the information technology coordinators agree that the following statements accurately describe their school's procedures.



Teachers and Parents/Guardians Perceptions of Student Data Security

Figure: The extent to which parents/guardians and teachers agree that the following statements accurately describe the school's procedures on privacy and security.



Element Digital Readiness

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Element Digital Implementation

of 10

Element: Data-Informed Decision Making

The use of formative and summative assessment data is part of the school culture, with administrators, teachers and, perhaps most importantly, all students actively using this data to improve learning. Assessment is not viewed as punitive, but rather as part of the teaching and learning process. There is an expectation in the school that data will inform all teaching and learning practices and decisions. This is modeled at all levels of the school system, from administration to the students themselves.

Guiding Question 1: High Expectations for Data-Informed Decision Making

Has the school established a data culture that sets high expectations for data-informed decisions by staff and students (e.g., expect decisions will be based on research, logic, and evidence; expect that data will be accurate and reliable; expect that research will be from reliable sources and cited, expect use of data from multiple sources, etc.)?

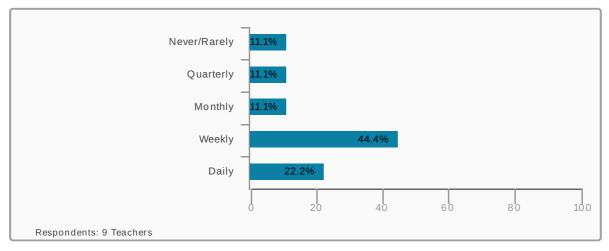
EDUCATORS' USES OF DATA TO INFORM PRACTICE

Most **TEACHERS** say that decision making in their school IS EVIDENCE-BASED. Most SCHOOL ADMINISTRATORS say that decision making in this school IS **EVIDENCE-BASED**

Respondents: 9 Teachers, 1 School Administrator

Frequency of Teacher Uses of Data to Monitor Student Progress

Figure: The teachers' perceptions as to how often they use data to monitor their students' progress toward established learning goals.



Guiding Question 2: Capacity of Students to Access and Use Data

Do students have the skills and motivation to access the data that are digitally accessible to them; and then use that data to monitor their own progress, adjusting their actions accordingly?

STUDENT USES FOR DATA

61% of **STUDENTS** say they use grades and testing data to help them decide what to study next.

Most TEACHERS say students USE
ASSESSMENT and other data to track
their own progress in achieving learning
goals/standards.

84% of PARENTS/GUARDIANS say, "My

own progress in learning."

child uses data (i.e., grades, test results, feedback from teachers, etc.) to evaluate his/her

Most SCHOOL ADMINISTRATORS
say students DO NOT USE
ASSESSMENT and other data to track
their own progress in achieving learning
goals/standards.

Respondents: 106 Students, 31 Parents/Guardians, 9 Teachers, 1 School Administrator

Element Digital Readiness

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Element: Data Literate Education

Professionals

Educators in the system are data literate, understanding the use and potential misuse of data in the teaching and learning process. They are informed about and adhere to district policies on data privacy and security. They also ensure that their students are knowledgeable and informed about data privacy and security, and that all students are good stewards of their own data. The school district provides professional learning opportunities in data literacy, and supports all education professionals technically and instructionally in their use of data for learning.

Element Digital Implementation

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Guiding Question 1: Updates on Laws for Educators

Has the school provided educators with professional learning and periodic updates on federal and state laws on data, privacy, and security related to students?

TEACHER KNOWLEDGE ON DATA POLICY

44% of TEACHERS say they are up-

to-date on federal and state laws on privacy and security of student data.

SCHOOL ADMINISTRATORS say that the district DOES NOT OFFER a

series of professional learning opportunities on data literacy. Topics include legal and ethical responsibility in ensuring data accuracy, privacy, and security; data-informed decision-making; etc.

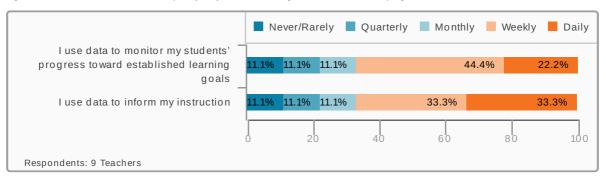
Respondents: 9 Teachers, 1 School Administrator

Guiding Question 2: Educator Capacity to Use Data

Do educators have the capacity (access and skill) to use data from multiple sources to inform instructional, curricular, and assessment decisions?

Educator Capacity to Use Data to Inform Instruction

Figure: Teachers indicate with what frequency they use data to target instruction, monitor progress, and inform their instruction.



Gear Overview

Gear Digital Readiness 6.3 of 10

Community Partnerships

Gear Digital Implementation





Coordinator

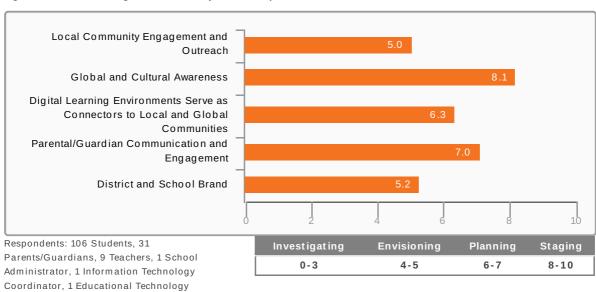
- Local Community Engagement and Outreach
- Global and Cultural Awareness
- Digital Learning Environments Serve as Connectors to Local and Global Communities
- Parental/Guardian Communication and Engagement
- District and School Brand

Community partnerships include the formal and informal connections with local and global communities. Such partnerships take the form of collaborative projects, establishing relationships that advance the school's learning goals. Digital communications, online communities, social media, and digital learning environments often serve as connectors for these partnerships.

Gear Report: Readiness Digital Learning

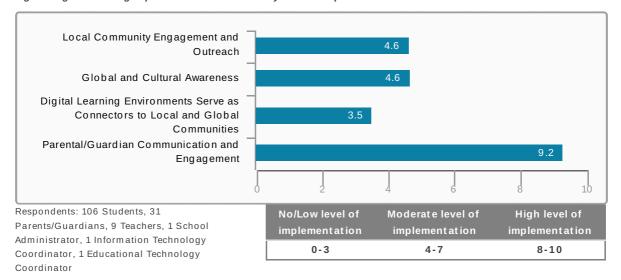
Maple Hill Middle School (10/11/2017 - 05/26/2018)

Figure: Readiness for Digital in Community Partnerships



A school's implementation rating represents the extent to which digital learning is implemented with students. The Digital Learning Implementation Rating is scored on a scale of 1-10 on a continuum from no/low implementation, to moderate, and then high implementation. Only 5 of the 8 gears are used to calculate the implementation score, since the other three gears do not directly impact students.

Figure: Digital Learning Implementation in Community Partnerships



5.0 of 10

Element Digital Implementation

4.6 of 10

Element: Local Community Engagement and

Outreach

The school serves as a hub of the local community. As such, it actively involves the community in achieving its learning goals, reaching out to the community to (1) extend learning into community centers, libraries, museums, and other public spaces; (2) bring relevance to curricula through partnerships that take the shape of apprenticeships, community service, authentic projects, and the use of community-based experts and resources, etc.; (3) implement community-based exhibitions, reviews, critiques, and celebrations of student work; and (4) coordinate afterschool programs, including collaboration with the school and students' teachers. The result is a school culture of collaboration, innovation, and empowerment.

Guiding Question 1: Community Connections that Bring Relevance to Student Learning

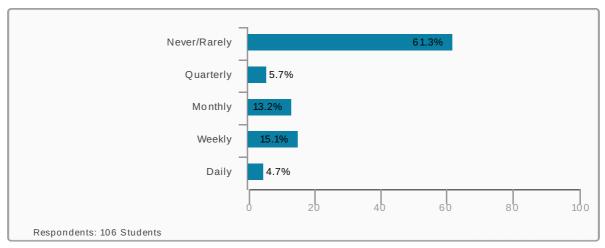
To what extent does the school provide opportunities for students to bring relevance to learning and/or the curriculum through community connections?

SCHOOL SCHOOL ADMINISTRATORS REPORT: "Our school's implementation of activities that enable us to serve as a hub of the community and actively involve the community in achieving the school's learning goals is at MODERATELY IMPLEMENTED.

Respondents: 1 School Administrator

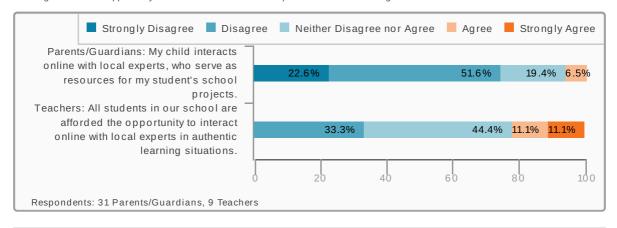
Students Interact Online With Local Community

Figure: Percentage of students who report on the frequency of their interactions online with local community members as part of class projects.



Authentic Learning Through Interactions With Local Community

Figure: Percentage of parents/guardians and teachers reporting on the extent to which they agree with statements about how their school is affording students the opportunity to interact online with local experts in authentic learning situations.

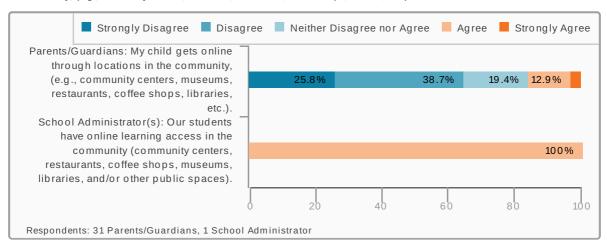


Guiding Question 2: Out-of-School Programs

To what extent does the school provide opportunities for students to engage in out-of-school learning programs, informal learning, and extended learning opportunities after school that involve the community?

Students Online Through Community Locations

Figure: Percentage of parents/guardians and school administrators who agree that students from their school get online through locations in the community, (e.g., community centers, museums, restaurants, coffee shops, libraries, etc.).



8.1 of 10

Element Digital Implementation

4.6 of 10

Element: Global and Cultural Awareness

The community partnerships extend and deepen all students' knowledge, understanding, and appreciation of cultures and communities other than their own. Digital networks enable all students and education professionals to connect, interact, and collaborate with other students, experts, and organizations from outside of their locale. The school builds the capacity of all students to recognize and value diversity, enabling them to participate successfully in community partnerships online and face-to-face.

Guiding Question 1: Student Interactions with Community and Cultures that Facilitate Appreciation of Diversity

To what extent do all students have the opportunity to connect and interact in social and professional contexts that reflect both peer-group and adult activities within the other cultures and communities? Are the students' interactions with peers or members of other communities and cultures orchestrated to use appropriate etiquette in verbal and non-verbal communications, as it helps students recognize, appreciate, learn about, and celebrate diversity?

LEARNING FROM NEW CULTURES AND COMMUNITIES

Question: Do students in this school have opportunities to gain new appreciations, knowledge, and understandings about cultures and communities other than their own through online communications and digital projects?

33% of TEACHERS say YES, students in their classrooms are afforded such opportunities.

39% of PARENTS/GUARDIANS say YES, their child is afforded these

opportunities.

SCHOOL ADMINISTRATORS

AGREE that students in this school are afforded such opportunities.

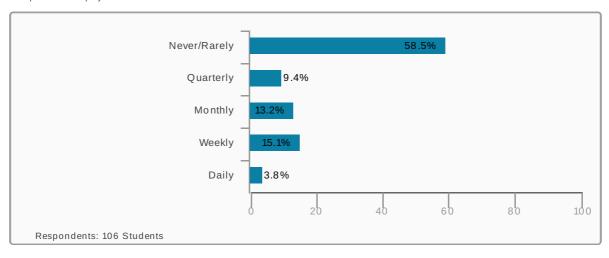
Respondents: 31 Parents/Guardians, 9 Teachers, 1 School Administrator

Guiding Question 2: Students Develop Skills to Interact Online With Other Cultures and Communities

Do all students leave the school with the skills necessary to interact successfully with other communities and cultures online, in meaningful ways connected to the curricular efforts?

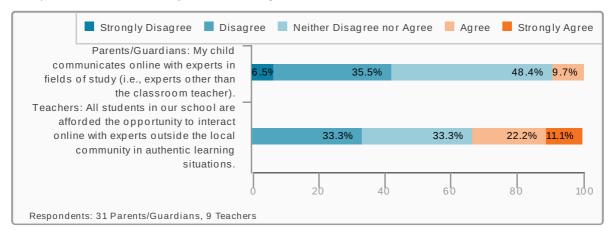
Students Connect with Other Cultures and Communities

Figure: Percentage of students who report on the frequencies of their connections online with students from other cultures and communities as a part of class projects.



Opportunity to Interact Online with Experts Outside the Local Community

Figure: Percentage of parents/guardians and teachers who agree that students in their school are afforded the opportunity to interact online with experts outside the local community, in authentic learning situations.



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0.3 of 1

Element Digital Implementation

3.5 of 10

Element: Digital Learning Environments Serve

as Connectors to Local and Global

Communities

The school district has established a digital learning environment that offers all students access to e-communication, resource libraries, file exchanges, and Web tools; which facilitate interactions among peers and between teachers, parents/guardians, and all students in school and beyond. District leaders facilitate digital citizenship and student responsibility for the development and structure of online communities to ensure online safety and security. The school forms partnerships that promote affordable, community-based access to devices and the Internet for students.

Guiding Question 1: Digital Learning Environment Enables Students to Interact with Community

Has the school provided a digital learning environment for students that empowers them to interact ethically and appropriately with local and global communities?

MEMBERSHIPS TO GLOBAL EDUCATION NETWORKS

SCHOOL
ADMINISTRATORS
DISGREE with this statement:

This district/school purchases memberships for approved global education networks where teachers can engage their students in projects with other schools locally and globally.

Respondents: 1 School Administrator

There are times when a school's filtering system can serve as a barrier to students' and teachers' access to communities outside the school. Take a look at what students and teachers say about your school on this topic.

INTERNET FILTERING SYSTEM

instruction.

0% of **STUDENTS** say that the school's filtering system is too strict. It often blocks websites that they need for learning.

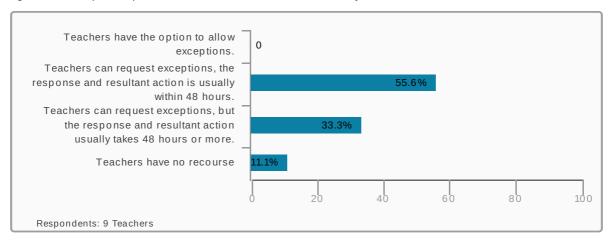
44% of TEACHERS say the school's filtering system is too strict. It often impedes

Respondents: 106 Students, 9 Teachers

The following chart describes a teachers recourse in your school when websites are blocked that interfere with or impede learning.

Teacher Recourse to Blocked Sites

Figure: Teachers report the options available to them when a website is blocked by the school Internet filter.



Element Digital Readiness

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Element: Parental/Guardian Communication

Element Digital Implementation

and Engagement

The school engages parents/guardians and all students in home-to-school communications through a variety of venues. While this may include Internet-based solutions, it also includes options that do not depend on connectivity in the home.

9.2 of 10

Guiding Question 1: Parental/Guardian Involvement

To what extent does the school welcome parental/guardian involvement through such activities as conferences, digital updates, notices, and reports from the school; parent/guardian volunteers in classrooms or the library, use of social media, or providing expertise for student projects?

ONLINE WITH PARENTS/GUARDIANS

94% of

PARENTS/GUARDIANS say they are

able to communicate online with their child's teachers.

SCHOOL ADMINISTRATORS say they COMMUNICATE with

parents/guardians online.

100% of TEACHERS say they

often communicate with parents/guardians online.

ET COORDINATORS say that

educators from this school

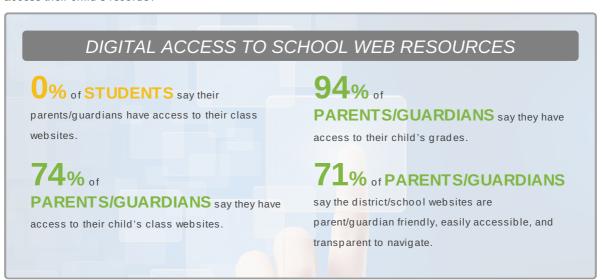
COMMUNICATE with parents/guardians

online, through social media.

Respondents: 31 Parents/Guardians, 9 Teachers, 1 School Administrator, 1 Educational Technology Coordinator

Guiding Question 2: School/Community Accommodates Parental/Guardian Access Online and Offline

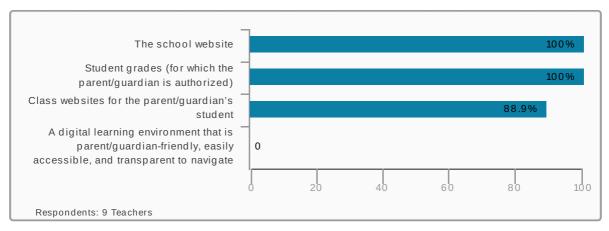
Are home-to-school communications, access to student records, and other interactions offered to parents/guardians on and offline? Do parents/guardians have options to use a variety of formats such as mail, website, and public announcement? Is the communication available in multiple languages? Do parents/guardians without online access in the home have community centers where they can use devices to access their child's records?



Respondents: 106 Students, 31 Parents/Guardians

Teacher Perspectives

Figure: The percentage of teachers who said that the following features are available to parents/guardians.



Element: District and School Brand

Branding is defined as the marketing practice of creating a name, symbol, or design that identifies and differentiates a product from other products. It's critical that schools develop a brand as well and that the brand is transparent to all members within the organization—they must all be telling the same story, one that they believe in and stand behind. During faculty gatherings, informal conversations, and various meetings the district and school must ensure that the brand is communicated to the entire team. If the brand is to be effectively communicated outside of the school, leaders must first ensure that the brand promise matches the brand experience—the most important component for our students. The possibilities for how schools/districts can tell their stories are endless. For schools, it has never been more important to communicate a brand. And, it has never been easier to bring a story to life through social media, technology, and connected communities. The time has come for educators, students, and families to use their voices, take control of their stories, and begin thinking about how school and district communities can brand their space.

Guiding Question 1: Single and Focused Brand Communicated Universally

Has there been a concerted effort on the part of the school to establish a brand? Does the school have a single brand that is communicated by all staff and students? To what extent does that effort involve educators, students, and families in telling their stories using technology and social media?

Story-Telling That Contributes to the Brand

Figure: The percentage of key stakeholder groups on the extent to which the school is engaged in story-telling with the community, which contributes to the district brand (reputation).

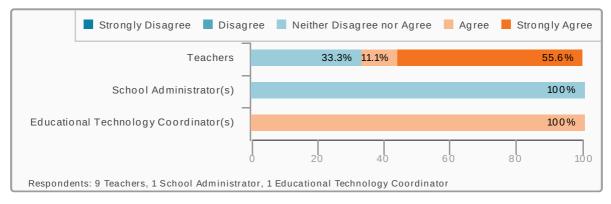
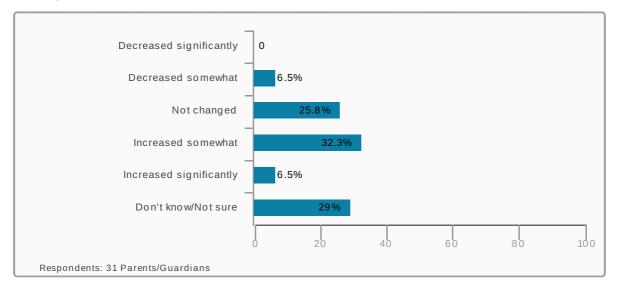


Figure: Parent/Guardian response in aswer to the question, "In my opinion, the amount of time my child spends using technology in the classroom, should be:"



Gear Digital Readiness 7.3 of 10

Professional Learning

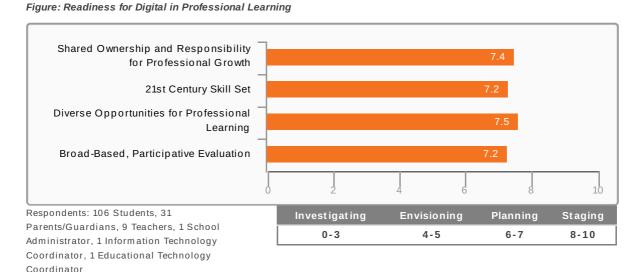


- Shared Ownership and Responsibility for Professional Growth
- 21st Century Skill Set
- Diverse Opportunities for Professional Learning
- Broad-Based, Participative Evaluation

Technology and digital learning can increase professional learning opportunities by expanding local and global access to high-quality, ongoing, job-embedded opportunities for professional growth for teachers, administrators, and other education professionals. Such opportunities ultimately lead to improvements in student success and create broader understanding of the skills that comprise success in a digital age. Digital professional learning communities, peer-to-peer lesson sharing, and better use of data and formative assessment, combined with less emphasis on "sit and get" professional development sessions eliminate the confines of geography and time. These ever-increasing resources offer teachers and administrators vast new opportunities to collaborate, learn, share, and produce best practices with colleagues in school buildings across the country. Digital leaders establish this type of collaborative culture. They model and are transparent/guardian with their own learning. In addition, educators must be engaged in more collaborative, goal-oriented approaches for the evaluation of their own teaching to serve as a personal model for the experiences that they might bring to all students.

Gear Report: Readiness Digital Learning

Maple Hill Middle School (10/11/2017 - 05/26/2018)



Element: Shared Ownership and Responsibility

for Professional Growth

Teachers, administrators, and other education professionals are self-directed in their professional practices, using technology to optimize teaching and learning. They are actively taking responsibility for their own professional growth through professional learning networks (PLNs) and online communities of practice. Educators have 24/7 access to collaborative tools, professional learning resources, and digital environments connect them locally and globally. Professional development offered by the district and school encourages, facilitates, and often requires creating and maintaining professional networks both within and outside of the district and school, frequently leveraging the latest in social media and blended learning. Educators are taking advantage of the district's policies that honor and encourage personalization of professional learning for teachers, administrators and other education professionals. School leaders are modeling these new, technology-enabled professional learning.

Guiding Question 1: Educators Accountable for Own Learning?

Is the school empowering teachers, administrators, and other education professionals to take ownership of and be accountable for their own professional learning?

Shared Ownership for Professional Growth

67% of TEACHERS agreed or strongly agreed that this district/school encourages shared ownership for their professional growth.

When SCHOOL

ADMINISTRATORS were asked if this district/school encourages shared ownership of educators' professional growth, they

STRONGLY AGREED.

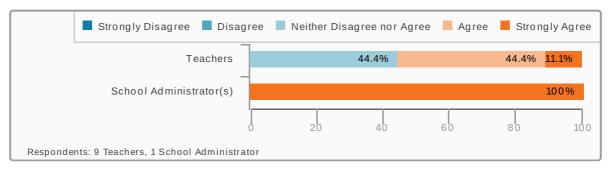
Respondents: 9 Teachers, 1 School Administrator

Guiding Question 2: Modeling Uses of Technology

Is the school modeling how technology can be used to support and share professional learning? For example, is the school explicitly teaching teachers to build professional learning networks (PLNs), learn through Twitter feeds, engage successfully in EdCamps)?

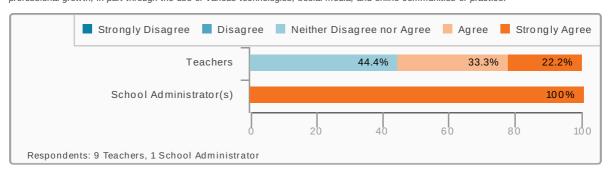
Policies on Ways to Demonstrate Professional Growth

Figure: The percentage of teachers and school administrators who agree (or disagree) that the district/school supports self-directed, personalized professional learning by providing educators with multiple ways to demonstrate professional growth (i.e., documenting professional learning credit in ways other than seat time).



Modeling of Continuous, 21st Century Professional Growth

Figure: The percentage of teachers and administrators who agree (or disagree) that the district/school leadership team models continuous professional growth, in part through the use of various technologies, social media, and online communities of practice.



7.2

of 10

Element: 21st Century Skill Set

Educators expand their knowledge to acquire a 21st Century skill set applicable to their professional learning, their professional practices, and their classroom practices. Through participation in 21st Century professional learning, they become better critical thinkers, problem solvers, innovators, collaborators, and communicators, and they become more selfdirected. The 21st Century skill set for education professionals should include: experience with online and blended learning; facility with technology in curriculum and instruction, with digital assessment, with informed use of data/data analytics; and the capacity to design appropriate units for all digital learners. School administrators create a school culture that requires teachers and other education professionals to apply these skills as they make informed decisions related to studentcentered learning, teaching, and assessment. Professional learning around these skills includes an immersion into the learning sciences that addresses research-based pedagogies to leverage project based learning and authentic learning in situations that enable collaborative learning with colleagues. Along the way, educators master a variety of new, researchbased instructional strategies to better engage all students in deeper learning and prepare them for college and beyond. These educators learn to create lessons and use instructional approaches that develop their students' 21st Century skills. They will need to develop collaborative pedagogical models in a supportive culture that enables them to experience negative and positive outcomes in the facilitation of learning without penalties. In addition, they will need to develop classroom management strategies for all digital learners, create safe learning environment that allows students to expand their reach, while ensuring that equipment is being used appropriately and effectively. Integral to this skill set is the effective use of technology, digital tools, blended learning, digital content, and social media to advance their own learning, and to coach and mentor their students.

Guiding Question 1: Safe and Supportive Culture in Which to Build 21st Century Skills

Has the school developed a safe and supportive culture that encourages innovation, exploration and calculated risk taking, especially in the use of 21st Century Skills, encouraging a growth mindset?

CULTURE TO BUILD 21ST CENTURY SKILLS

89% of TEACHERS say they are empowered to innovate and take professional calculated risks as they transform their classrooms into 21st Century learning environments.

11% of TEACHERS say that some district and/or school policies are barriers to implementing lessons that integrate 21st Century Skills.

100% of TEACHERS say there is moderate to full implementation of strategies to promote 21st Century skills/deeper learning outcomes integrated into the curriculum.

Yet, 100% of SCHOOL

ADMINISTRATORS agree that

"Transitioning our school to 21st Century skills and digital learning must be a top priority if we are to graduate students ready for their futures."

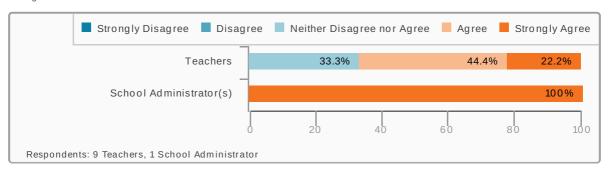
Respondents: 9 Teachers, 1 School Administrator

Guiding Question 2: Educators Using 21st Century Skills

To what degree are staff using 21st Century skills in their professional practice with peers?

Educators Using 21st Century Skills in Their Professional Practice

Figure: The percentage of teachers and school administrators reporting on the extent to which they connect online with professional colleagues about issues that are of relevance to their work.



Guiding Question 3: Educators Competent in Building 21st Century Lessons/Units

How competent are staff in building lessons that effectively integrate 21st Century skills into learning? To what extent are they building lessons and units that embody authentic learning?

21ST CENTURY PROFESSIONAL PRACTICES

67% of TEACHERS place a

moderate to high emphasis on embedding digital citizenship into their lesson/unit plans.

100% of SCHOOL

ADMINISTRATORS agree that "In our school and district, staff members are expected to acquire knowledge and expertise with 21st Century skills and then integrate these skills (i.e., creativity, critical thinking, collaboration, self-direction, etc.) into all aspects of curriculum, instruction, and assessment."

Respondents: 9 Teachers, 1 School Administrator

THE FOUR C'S

89% of TEACHERS place a

moderately high to high emphasis on embedding critical thinking and problem solving into their lesson/unit plans.

89% of TEACHERS place a

moderately high to high emphasis on embedding communication into their lesson/unit plans.

100% of TEACHERS place a

moderately high to high emphasis on embedding collaboration into their lesson/unit plans.

78% of TEACHERS place a

moderately high to high emphasis on embedding creativity and innovation into their lesson/unit plans.

Respondents: 9 Teachers

Element: Diverse Opportunities for

Professional Learning

Digital leaders model new types of professional learning and ensure that educators have access to (and the technology savvy necessary to leverage) professional development opportunities that are diverse, customizable and supported by the latest technologies. Such opportunities use research-based pedagogies and technology (e.g., social media, professional learning networks (PLNs), Twitter feeds, EdCamps, etc.). Professional learning is available anytime, anywhere in a variety of modes. New models of professional learning are supported through coherent district and school policies and practices.

Guiding Question 1: Educators Empowered by Technology to Personalize Learning

Are educators participating in the types of professional learning that empower them to personalize their learning? Has the school identified and developed teacher leaders in personalized, professional learning initiatives?

Empower Educators to Personalize Learning

When **ADMINISTRATORS** from this school were asked if they agreed with the statement to the right, their most frequent response was: **NOT SURE**.

"Our school (or district) is providing teachers professional learning opportunities that empower them to personalize learning for their students."

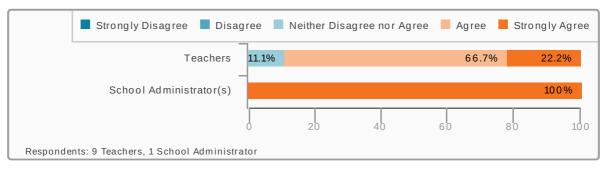
Respondents: 1 School Administrator

Guiding Question 2: School Offers Broad Range of Technology-Supported Professional Development

Has the school researched, developed, modeled, and implemented a broad range of differentiated professional learning options that use technology and social media to enable personalized professional learning? Job embedded growth model.

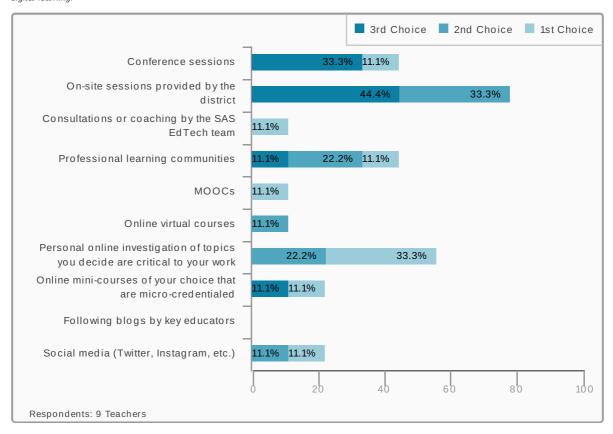
Broad Spectrum of Professional Learning Offered by District/School

Figure: Teachers and school administrators reporting on the extent to which they agree that the district/school encourages, models, and provides opportunities for a broad spectrum of professional learning (e.g., face-to-face, webinars, social media, coaches, etc.).



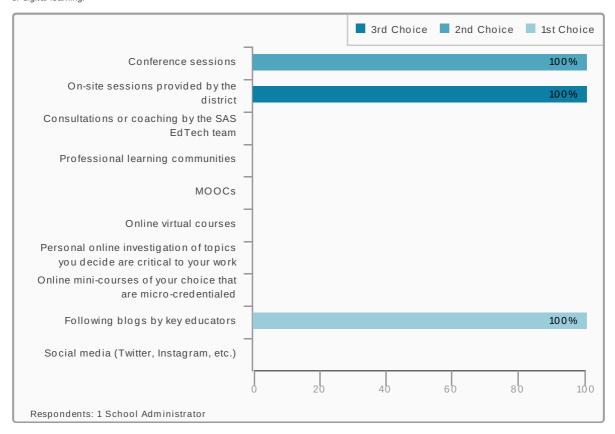
Top 3 Types of Professional Learning

Figure: The ranking by teachers as to the top 3 types of professional learning they prefer when learning about educational technology or digital learning.



Top 3 Types of Professional Learning

Figure: The ranking by administrator(s) as to the top 3 types of professional learning they prefer when learning about educational technology or digital learning.



Element: Broad-Based, Participative

Evaluation

In order to promote goal-oriented, self-regulated professional behaviors, evaluation is participative (i.e., the educator who is the subject of evaluation is actively involved in goal-setting, collecting indicators of progress, and self-evaluative behaviors). Professional evaluation uses a broad set of indicators that includes student achievement, evidence of improved instructional practice, student engagement, and 21st Century skill attainment.

Guiding Question 1: Explicit Connection Between Digital Learning and Teacher Evaluation Framework

Are the criteria used in teacher and other staff evaluations aligned to the digital learning vision, e.g., student achievement, evidence of improved instructional practice based on research, student engagement, and 21st Century skill attainment? To what extent do the results from such analyses inform the setting of teachers' professional learning goals, ensuring that the process is cyclical?

TEACHER EVALUATION ALIGNED TO DL

67% of TEACHERS said they agreed or strongly agreed that the criteria for teacher evaluations are aligned to the district and school vision for digital learning.

When SCHOOL

ADMINISTRATORS were asked the same question, their most frequent response was that they STRONGLY AGREED.

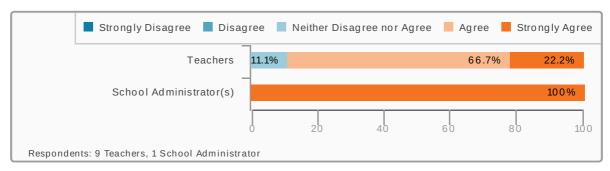
Respondents: 9 Teachers, 1 School Administrator

Guiding Question 2: Evaluation Process Recognizes Variability of Success that Results from Innovation

Is the school leadership team establishing a culture of trust, respect, and innovation, acknowledging that in such a culture, teacher evaluation must take into account the expected variability of success with lesson implementation as innovation occurs?

Teacher Evaluation Process Acknowledges Variability in Innovation

Figure: Teachers and school administrators reporting on the extent to which they agree that the school has a culture of trust, respect, and innovation that acknowledges that teacher evaluation must take into account the expected variability of success with lesson implementation as innovation occurs.



Gear Overview

Gear Digital Readiness 5.4 of 10

Budget and Resources



- Efficiency and Cost Savings
- Alignment to District- and Building-Level Strategic and Tactical Plans
- Consistent Funding Streams
- Learning Return on Investment

The transition to digital learning will require strategic short-term and long-term budgeting and leveraging of resources. All budgets at the district and the school levels should be aligned to the new vision, with consistent funding streams for both recurring and non-recurring costs to ensure sustainability. During the transition to digital learning, district and school leaders should strive for cost-savings and efficiencies through effective uses of technology. The financial model should include the metrics and processes to ensure not only sustainability, but also total cost of ownership and accountability for learning returns on investments.

Gear Report: Readiness Digital Learning

Maple Hill Middle School (10/11/2017 - 05/26/2018) Figure: Readiness for Digital in Budget and Resources



Coordinator

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Element: Efficiency and Cost Savings

Funding for digital learning leverages technologies that increase efficiency, cost savings and cost effectiveness. District and school leaders have strategies for calculating the total cost of ownership (TCO) for all technology resources. This involves a review of both direct cost (e.g., costs related to equipment, devices, Internet access, boxes, wires, etc.) and indirect costs (e.g., training, technical assistance, staff time, etc.).

Guiding Question 1: Uses Research or Pilots to Identify TCO

What actions has the school taken in conducting research or pilots to identify the direct and indirect total cost of ownership (TCO) associated with owning and using technology resources?

(TCO): DIRECT AND INDIRECT COSTS

SCHOOL ADMINISTRATORS were

asked if they agreed with the statement below.

"Our district/school has a process in place to identify and summarize all the **DIRECT**

AND INDIRECT COSTS associated

with digital learning."

Their most frequent response about **DIRECT**

COSTS, (i.e., acquisition and upgrades of technologies and networks, licenses, and bandwidth), was they **AGREED**.

Their most frequent response about

INDIRECT COSTS, (i.e., costs of

implementation, professional learning, technical support, and operations), was they WERE NOT SURE.

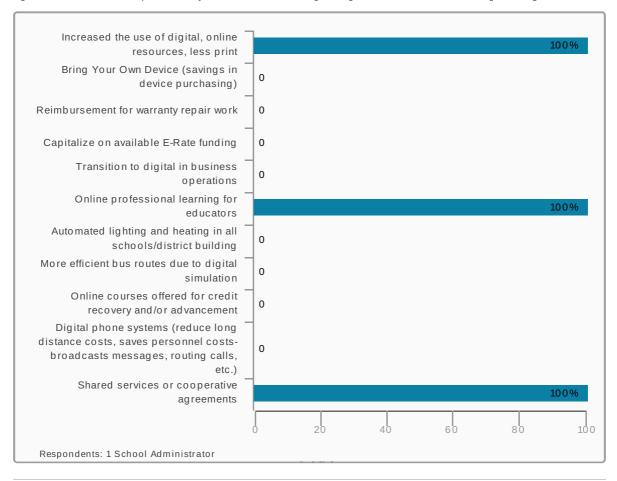
Respondents: 1 School Administrator

Guiding Question 2: Documentation of Cost Savings from Technology

What steps has the school taken in documenting any cost savings, efficiencies, and effectiveness accomplished through the funding of the school's technology, digital resources, and other associated costs (e.g., savings from transitioning from print to digital)?

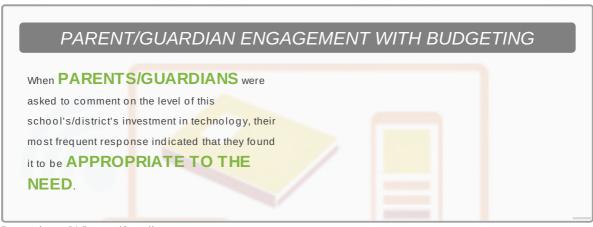
Cost Savings from Innovative Uses of Technology

Figure: School administrator reports that they have achieved cost savings through innovative uses of the following technologies



Guiding Question 3: Parents/Guardians' Engagement in the Budgeting Process

How are these benefits communicated to stakeholders, especially the shift to digital? How often is this process repeated? How does this process inform the exploration of new options for cost savings? In such explorations, to what extent are parents/guardians involved?



Respondents: 31 Parents/Guardians

Element: Alignment to District- and Building-

Level Strategic and Tactical Plans

Priorities for budget and resources are clearly linked to districtand building-level strategic and tactical plans and to school improvement goals. All expenditures are justified as supportive of these plans. Innovative programs are funded conditionally upon their alignment to the district's vision and mission, thus ensuring sustainability, efficiency, and coherence with the vision.

Guiding Question 1: Prioritize Budgets Based on School Plans

To what extent does the school prioritize budget and resource decisions (including that for technology at district, school and classroom levels) based on the school's strategic and tactical plans for learning?

ACADEMICS DRIVE TECHNOLOGY BUDGETS

Information technology coordinators and school administrators and were asked if they agreed with the statement below:

"Our district/school's annual ACADEMIC PLANNING process INFORMS AND **GUIDES THE BUDGETARY DECISIONS** related to digital learning,

technology, and infrastructure."

IT COORDINATORS' most frequent response was that it DOES INFORM and guide budgetary decisions related to technology.

SCHOOL ADMINISTRATORS' most frequent response was that the academic process DOES INFORM and guide technology budgeting.

Respondents: 1 Information Technology Coordinator, 1 School Administrator

Guiding Question 2: Identify and Budget for Indirect Costs Related to Technology

How does the school identify and budget indirect costs necessary to ensure optimal returns are recognized from the acquisition?

RETURN ON INVESTMENT

IT COORDINATORS report that their district/school **DOESN'T** have a system for analyzing **TCO** (i.e., direct and indirect costs) across the life cycle of the technology. This system is used to plan and project upgrade and replacement cycles

SCHOOL ADMINISTRATORS sav that their district/school HAS THE METRICS to calculate a learning return on the district investment in digital learning.

Respondents: 1 Information Technology Coordinator, 1 School Administrator

4.1 of

of 10

Element: Consistent Funding Streams

Budgets for digital learning programs and initiatives are part of the annual maintenance and operation budget for the district. Reliance on grant funding or temporary sources is minimal, and funding for digital learning is integrated into all budget areas where appropriate.

Guiding Question 1: School Achieves Fiscal Sustainability Over Life Cycle of Technologies

To what extent does the school understand the life cycles, maintenance requirements, and implementation costs of technology, and budget accordingly? Does the school explore options for funding technology, including not only the Maintenance and Operations (M&O) budget, but also alternatives such as grants, consortia purchasing, cost sharing, and crowdsourcing?

SUSTAINABILITY OVER LIFE CYCLE

Most IT COORDINATORS reported that this school MAY NOT HAVE

REVIEWED past practices to determine where and how inconsistency in funding has negatively impacted digital learning practices and/or outcomes.

Most SCHOOL ADMINISTRATORS

say that their school, when conducting short-term pilot projects (or other innovative initiatives),

DOES CREATE sustainability plans to support these initiatives long-term.

Respondents: 1 Information Technology Coordinator, 1 School Administrator

Technology Funding Sources

Table: The school administrators' identification of funding sources for this school

Item	Percent of Respondents
Federal grants	100%
E-Rate	0%
State grants	100%
Foundation grants	0%
Parent/Guardian Teacher Organization (PTO) grants	0%
Crowdsourcing (e.g., Kickstarter)	0%
Special levies	0%
Community fundraising	0%
Gifts from patrons	0%
Consortia purchasing	0%
Cost sharing	100%
Tax levy	0%

Respondents: 1 School Administrator

Guiding Question 2: Funding Technology Refresh Cycle

How fully does the school fund a technology refresh plan?

FUNDING THE REFRESH CYCLE

Most **IT COORDINATORS** say the school's processes for updating and replacing devices, hardware, and networks **ARE**

ENVIRONMENTALLY RESPONSIBLE.

when **IT COORDINATORS** were asked about refresh cycles, their most frequent answer was: "Cycles for updating and replacing devices, hardware, and networks **ARE NOT**

FINANCIALLY SUPPORTED

through line items in the annual maintenance and operations budget.

Respondents: 1 Information Technology Coordinator

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Element: Learning Return on Investment

All metrics for review of budget priorities are based on their demonstrated relationship to student learning goals. The school calculates its learning return on investment.

Guiding Question 1: School Uses Zero-Based Budgeting

To what extent does the school use zero-based budgeting as part of a transformational budgeting process, where an item must be linked to a district/school strategic plan or learning goal in order to be included in the budget?

ZERO-BASED BUDGETING

Information technology coordinators and school administrators were asked the question below:

Does your district/school use **ZERO-**

BASED BUDGETING AS PART
OF A TRANSFORMATIONAL
BUDGETING PROCESS, where an

item must be linked to a district/school strategic plan or learning goal in order to be included in the budget?

Overall, IT COORDINATOR report(s) that the district DOESN'T USE ZERO-BASED BUDGETING.

When SCHOOL

ADMINISTRATORS were asked about zero-based budgeting, the most frequent response was that this district IS NOT SURE IF THE DISTRIC USES

SURE IF THE DISTRIC USES ZERO-BASED BUDGETING.

Respondents: 1 Information Technology Coordinator, 1 School Administrator

Guiding Question 2: School Measures ROI Using TCO

To what extent does the school track TCO (i.e., the direct and indirect costs of the technology)? To what degree does the school's TCO include direct costs such as purchase, lease, and licensing prices for equipment, Internet access, boxes, wires, and digital resources, as well as indirect costs such as staff time, technical assistance, insurance, and training required.

How does the school calculate its learning return on investment? (i.e., gauging gains in student learning in return for TCO investment)? What is that return either for specific programs and/or for the whole school?

LEARNING RETURN ON TECHNOLOGY INVESTMENT

The most frequent response by **T**

COORDINATORS, when asked about a

learning return on investment, was that a significant positive learning return on the district/school's investment in digital learning

HAS NOT BEEN DOCUMENTED

by the district/school.

Overall, SCHOOL

ADMINISTRATORS report that a

significant positive learning return on the district/school's investment in digital learning

HAS NOT BEEN DOCUMENTED

by our district/school.

Respondents: 1 Information Technology Coordinator, 1 School Administrator

Gear Digital Readiness

Across the Gears: Empowered, Innovative

Leadership



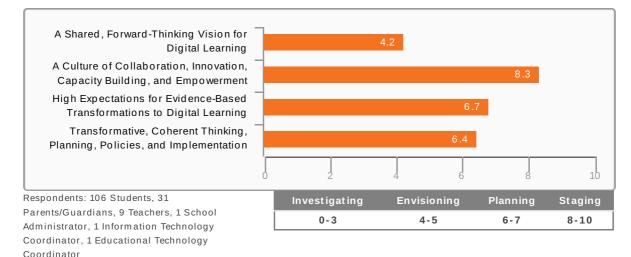
- A Shared, Forward-Thinking Vision for Digital Learning
- A Culture of Collaboration, Innovation, Capacity Building, and Empowerment
- High Expectations for Evidence-Based Transformations to Digital Learning
- Transformative, Coherent Thinking, Planning, Policies, and Implementation

Future Ready is a systemic planning framework around the effective use of and access to technology and digital learning to achieve the goal of "career and college readiness" for all students. While the seven interdependent Future Ready Gears provides a roadmap toward digital learning, success within a district is depended on innovative leadership at all levels. First and foremost, leaders within a district must be empowered to think and act innovatively, they must believe in the district's shared, forward-thinking vision for deeper learning through effective uses of digital, 21st Century technologies. Critical to their success will be a culture of innovation that builds the capacity of all students, teachers, administrators, parents, and community to work collaboratively toward that preferred future. The policy foundation that results must be coherent with that vision. Unleashed in a culture of vision and empowerment, leaders will have the flexibility and adaptability they require to prepare their students to thrive in the 21st Century. They will collaboratively hold one another accountable against established metrics, using continuous feedback loops to inform change management while leading from the middle.

Gear Report: Readiness Digital Learning

Maple Hill Middle School (10/11/2017 - 05/26/2018)

Figure: Readiness for Digital in Across the Gears: Empowered, Innovative Leadership



Element: A Shared, Forward-Thinking Vision

for Digital Learning

The district and school leaders recognize that to prepare their students to thrive in today's connected, fast-paced society will require an education that engages all students in evidence-based, deeper learning through smart uses of technology and new pedagogies. The schools have engaged all students, teachers, administrators, parents, and the community in the envisioning of a transformed education system that personalizes learning for all students through the effective uses of technology. They have articulated and shared this vision internally and externally.

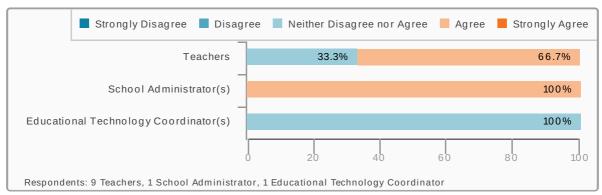
Guiding Question 1: Clear Expectations and Metrics of Success for Digital Learning

To what degree has the school set clear expectations as to what is expected of staff and students in implementing the vision for digital learning? Are there high expectations for evidence-based transformations to digital learning, both in and out of school? Is the vision for digital learning clearly articulated for various stakeholder groups? Has the school established metrics for measuring the progress the school is making in implementing and achieving the vision? Are these data used to inform continuous improvements?

Note: Such metrics might include measures of digital citizenship, student engagement, student self-direction, critical thinking, successful collaboration, and other 21st century skills. Measurement tools might include classroom observations, inclusion and use of lesson templates that refer to 21st Century skills, school walkthroughs documenting the range of technology uses, etc.

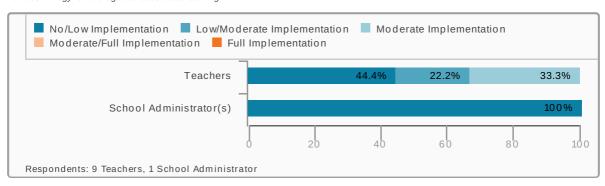
Clarity of Expectations for Digital Learning

Figure: Teachers, school administrators, and educational technology coordinators report on the extent to which they believe that the school has set clear expectations as to what is expected of staff and students in implementing the vision for digital learning.



Metrics for Success

Figure: Teachers and school administrators report on the extent to which the school (or district) is using established metrics to track how technology is leveraged to accelerate learning



Element: A Culture of Collaboration,

Innovation, Capacity Building, and

Empowerment

The District and school leadership teams have established a collaborative culture of innovation in which leaders at all level are empowered to innovate. Within this culture, the school is being restructured to bring the vision to life. The capacity of leaders to innovate is maximized through a culture of trust and respect, providing leaders with the flexibility and adaptability they require to lead. This culture leads to sustainable change, informed by research and facilitated by digital leaders.

Guiding Question 1: Culture of Empowerment

To what extent have stakeholders committed to the vision for digital learning and its implementation in their schools and classrooms? Has the school established a culture of trust, respect, and shared commitment to digital learning and 21st Century skills, where autonomy, collaboration and innovation are the norm?

STAKEHOLDERS COMMITTED TO THE VISION

97% of PARENTS/GUARDIANS

support the inclusion of digital learning in their child's classroom.

100% of TEACHERS who report

that they are committed to transitioning their classroom to digital learning (or have already made that transition). 100% of TEACHERS report that they do, "see high value in digital learning for our

The most frequent response by SCHOOL

ADMINISTRATORS, when asked if they agree that "Transitioning their school to 21st Century skills and digital learning must be a top priority if students are to graduate ready for their futures," was THEY STRONGLY

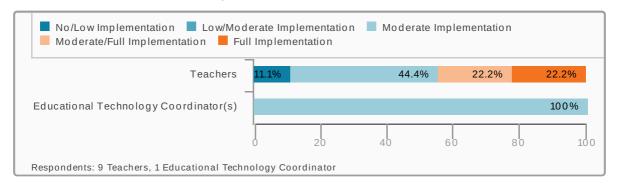
AGREE

students "

Respondents: 31 Parents/Guardians, 9 Teachers, 1 School Administrator

Culture of Trust, Respect, and Autonomy

Figure: Teachers and educational technology coordinators report on the extent to which they believe the school has implemented a culture in which leaders are informed, collaborative, and empowered to innovate.

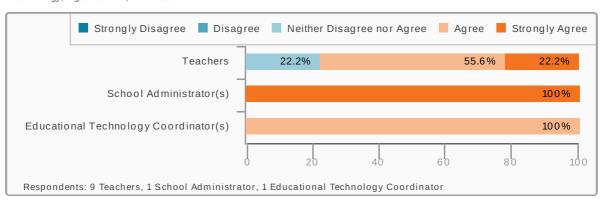


Guiding Question 2: Flexibility Empowers Innovation

Has the school empowered leaders to innovate by providing them with flexibility, adaptability, and autonomy in achieving desired learning outcomes and/or concepts grounded in cognitive research?

Culture of Digital Innovation

Figure: Teachers, school administrators, and educational technology coordinators report on their agreement with the statement: "Our school has established a culture of digital innovation, where educators are empowered to deepen and extend student learning through the use of technology, digital content, and media."



Element: High Expectations for Evidence-

Based Transformations to Digital Learning

Across the district, teachers, administrators, and students are expected to show progress toward the district vision for 21st Century digital learning. The district has established metrics for gauging such progress and is working across the district to monitor progress and to use evidence-based decision making to ensure that technologies are implemented in ways that advance the vision.

Guiding Question 1: Evidence-Based Transformations

To what extent have school leaders provided inspiration for staff to achieve evidence-based transformations to digital learning that empower students to learn? To what extent have these leaders worked with staff to set high expectations collaboratively with staff to achieve the vision? Have school leaders established and use metrics to gauge the progress their school is making toward digital learning? Note: Such metrics might include measures of digital citizenship, student engagement, student self-direction, critical thinking, successful collaboration, and other 21st century skills. Measurement tools might include classroom observations, inclusion and use of lesson templates that refer to 21st Century skills, school walkthroughs documenting the range of technology uses, etc.

HIGH EXPECTATIONS

When asked if they agreed with the following statement:

"In this school and district, staff members are

expected to ACQUIRE KNOWLEDGE

AND

EXPERTISE WITH 21st
CENTURY SKILLS and then integrate

these skills (i.e., creativity, critical thinking, collaboration, self-direction, etc.) into all aspects

of CURRICULUM, INSTRUCTION, AND ASSESSMENT.

SCHOOL ADMINISTRATORS'

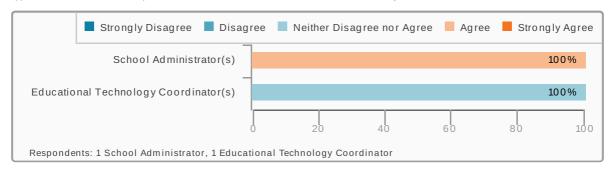
most frequent response was

"STRONGLY AGREED."

Respondents: 1 School Administrator

Evidence-Based Transformations

Figure: School administrators and educational technology coordinators levels of agreement with the statement: "Our district/school uses applicable data to inform the implementation of the district's/school's vision for 21st Century skills."

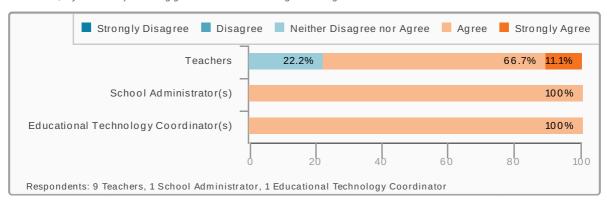


Guiding Question 2: Level of Implementation

To what extent are educators implementing the vision for digital learning? Are the schools making gains?

Gains Toward Digital Innovation

Figure: Teachers, school administrators, and educational technology coordinators levels of agreement with the statement: "Our school (or, for teachers, my classroom) is making gains in the transition to digital learning."



Element: Transformative, Coherent Thinking,

Planning, Policies, and Implementation

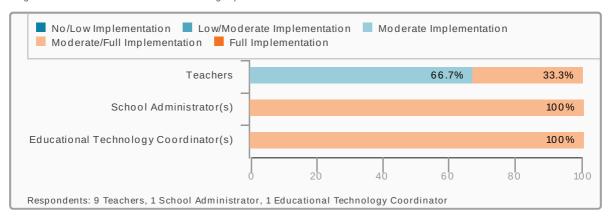
The district's forward-thinking vision is advanced through leaders' transformative thinking. Leaders have ensured that the district's policies are coherence with the philosophy underpinning the vision (e.g., personalizing professional learning for education professionals, just as they personalize learning for students). They have developed strategic plans that map potential pathways to the district's preferred future, and have created the tactical and financial plans and dedicated budget necessary for implementation. As they implement they monitor, adjust, build capacity, and incrementally improve.

Guiding Question 1: Coherence of Policies with the Acquisition of 21st Century Learning/Digital Learning

Have school leaders aligned school policies and procedures to the vision for 21st Century skills and digital learning? Have school leaders developed plans and established associated metrics to track progress toward the vision? Are data used to inform continuous improvements?

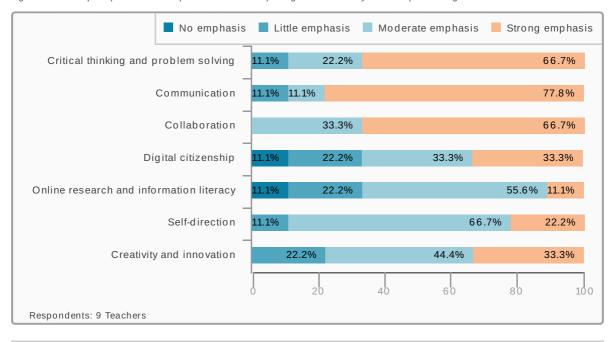
Strategies to Promote 21st Century Skills/Deeper Learning

Figure: Key stakeholders perceptions of the degree to which strategies to promote 21st Century skills/deeper learning outcomes are integrated into curriculum and instruction are being implemented.



Strategies to Promote 21st Century Skills/Deeper Learning

Figure: Teachers' perceptions of the emphasis the school is placing on 21st Century skills/deeper learning.

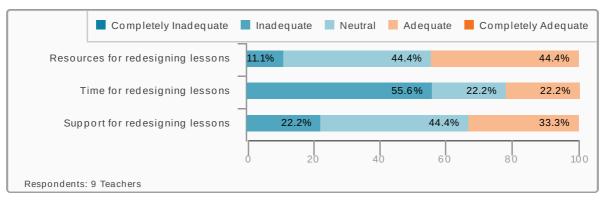


Guiding Question 2: Capacity Building

To what extent do school leaders develop the capacity of staff to monitor and attain these expectations?

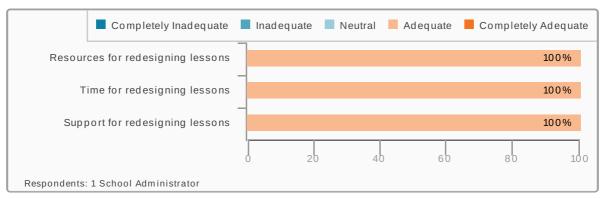
Capacity Building for Redesigning Lessons - Teacher Perspective

Figure: Teachers report on the adequacy of the support, time and resources to redesign lessons for the 21st century.



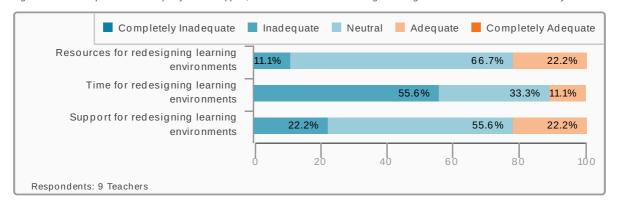
Capacity Building for Redesigning Lessons - Administrator Perspective

Figure: School administrators report on the adequacy of the support, time and resources to redesign lessons for the 21st century.



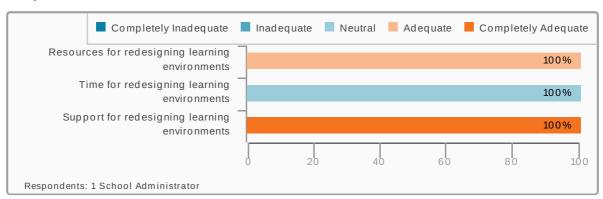
Capacity Building for Redesigning Learning Environments – Teacher Perspective

Figure: Teachers report on the adequacy of the support, time and resources to redesign learning environments for the 21st Century.



Capacity Building for Redesigning Learning Environments - Administrator Perspective

Figure: School administrators report on the adequacy of the support, time and resources to redesign learning environments for the 21st Century.



TOP POLICY ALIGNMENTS

33% of TEACHERS say that STUDENTS IN THIS SCHOOL HAVE A SIGNIFICANT ROLE TO

PLAY in determining key aspects of their learning (e.g., what essential questions they investigate, how they use technology to learn, when they learn, with whom they learn, and when their projects are complete.).

SCHOOL ADMINISTRATORS most frequently responded, "I WERE NOT

SURE, when asked if this school is providing teachers professional learning opportunities that

EMPOWER THEM TO
PERSONALIZE LEARNING FOR
THEIR STUDENTS

Most SCHOOL ADMINISTRATORS

AGREED that this district/school provides instructional support to all staff on using

TECHNOLOGY TO EMPOWER
STUDENTS TO LEARN (e.g.,

coaching, vetted digital content, classroom management, collaborative exchanges, lesson design and modeling, etc.)."

67% of TEACHERS say the school's DIGITAL LEARNING ENVIRONMENTS AND DIGITAL CONTENT ARE ACCESSIBLE TO AUTHORIZED STUDENTS 24/7.

Respondents: 9 Teachers, 1 School Administrator

POLICY ALIGNMENT

Most SCHOOL ADMINISTRATORS
say, "Our school (or district) IS NOT
USING ESTABLISHED METRICS

to track how technology is leveraged to accelerate learning."

When SCHOOL

ADMINISTRATORS were asked if this school had equitable access to up-to-date devices that allow all students to communicate, create, and collaborate effectively, their most

frequent response was YES.

Respondents: 1 School Administrator

